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FIGURE 5162

MDNKKRLAYAI IQFLHDQLRHGGLSSDAQESLEVAIQCLETAFGVTVEDSDLALPQTLPEIFEAAATGKEMPQDL
RSPARTPPSEEDSAEAERLKTEGNEQMKVENFEAAVHFYGKAIELNPANAVYFCNRAAAYS KLGN YAGAVQDCER
AICIDPAYS KAYGRMGLALSSLNKHVEAVAYYK KALELDPDNETYKSNLKIAELKLREAPSPTGGVGSFDIAGLL
NNPGFMSMASNL MN NPQIQQLMSGMISGGNNPLGTPGTSPSQNDLASLIQAGQQFAQQMQQQNPELIEQLRSQIR
SRTPSASND DQQE

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FIGURE 5163

GTGGCGGCGGTTGGGCGGAGGCAGGCGGCCTCAGTGGCCGAGGTGGCTGGACGCGTAGCAGGTGGAAGGAGGGAG
GGAGCCGCAGGCGCAGACCCACCCGCCATGAAGCCCCCGCAGCCTGTGCAGGAGACATGGCGGACGCAGCATCT
CCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGAGTGCCAGCAGATAGAGGAGCGCACCAGGGAGCTCATC
GAGCAGACCAAGCGCGTGTATGACCAGGTTGGCACCAGGAGTTTGAGGACGTGTCTTACGAGAGCACGCTCAAG
GCGCTGGCCGATGTGGAGGTCACCTACACAGTTTACAGAGGAATATCCTTGACTTCCCCCAGCATGTTTCCCCCTCC
AAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAAGCTCTCTGAGTTCGACGTGGAGATGAGCATGAGGGAG
GACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAGTTTACAAGGACTCACTGAGGCCCGAGGCTGCGCGGTAC
CTGGAGCGGCTAATCAAGCTGGGCGGAGAAATGGGCTTACCTCCCCAGAGAGACTCAGGAAAACATCAAACGC
ATCAAGAAGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAACCTGAACGAGGACACGACCTTCTGCCCCTT
ACGCTCCAGGAGCTAGGAGGGCTCCCCGAGGACTTTCTGAACCTCCCTGGAGAAGATGGAGGACGGCAAGTTGAAG
GTCACCTCAAGTACCCCCATTACTTCCCCCTCTGAAGAAATGCCACGTGCCTGAGACCAGGAGGAAAGTGGAG
GAGGCCTTCAACTGCCGGTGAAGGAGGAGAACTGCGCTATCCTCAAGGAGCTGGTGACGCTGCGGGCCAGAAAG
TCCCGCTGCTGGGGTTCCACACGCACGCCGACTATGTCTGGAGATGAACATGGCCAAGACCAGCCAGACCGTG
GCCACCTTCTAGATGAGCTGGCGCAGAAGCTGAAGCCCTGGGGGAGCAGGAGCGTGCGGTGATTCTGGAGCTG
AAGCGTGCGGAGTGCGAGCGCGGGGCTGCCCTTTCAGCGCCGCATCCGTGCCTGGGACATGCGCTACTACATG
AACCAGGTGGAGGAGACGCGCTACTGCGTGGACCAGAACCTGCTCAAGGAGTACTTCCCCGTGCAGGTGGTCACG
CACGGGCTGCTGGGCATCTACCAGGAGCTCCTGGGGCTGGCCTTCCACCACGAGGAGGGCGCCAGTGCTGGCAT
GAGGACGTGCGGCTCTACACCGCAGGGACGCGGCCTCGGGGAGGTGGTTCGCAAGTTTCTACCTGGACCTGTAC
CCGCGGGAAGGAAAGTACGGGCACGCGGCCTGCTTTGGCCTGCAGCCCGGCTGCCTGCGGCAGGATGGGAGCCGC
CAGATCGCCATCGCGGCCATGGTGGCCAACCTTACCAAGCCACAGCCGACGCGCCCTCGCTGCTGCAGCATGAC
GAGGTGGAGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCAGGCGGAGTTTCGCCATGTTT
AGCGGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCGTTCGAGATGCTGGAGAACTGGGTGTGGGAGCAGGAG
CCGCTGCTGCGGATGTGCGGCACTACCGCACAGGCAGCGCCGTGCCCCGGGAGCTCCTGGAGAAGCTCATTGAG
TCCCGGCAGGCCAACACAGGCCTCTTCAACCTGCGCCAGATCGTCTCGCCAAGGTGGACCAGGCCCTGCACAG
CAGACGGACGCAGACCCCGCCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCGGCCACGCCAGGA
ACCAACATGCCTGCAACCTTCGGCCATCTGGCAGGTGGCTACGACGCCCAGTACTACGGGTACCTGTGGAGCGAG
GTGTATTCCATGGACATGTTCACACGCGCTTCAAGCAGGAGGGTGTCTTGAACAGCAAGGTGGCATGGATTAC
AGAAGCTGCATCCTGAGACCCGGCGGTTCCGAGGATGCCAGCGCCATGCTGAGGCGCTTCTGGGCGGTGACCCC
AAGCAGGACGCCTTCTCTGAGCAAGGGGCTGCAGGTGCGGGGCTGCGAGCCCGAGCCGAGGTCTGCTGAGGC
CTGGCACTGCGACTGCCAGTCTGGCCTGCGCTCCCGCGGCCCTGGTGCCTTAGCCCCCGGCACAGGATGGGGCA
GGCTCTGGCACAGTGCCTGGGACTGGCAGGGTGGCTGAGCGGCTGCTTGCCTCTTGTCTGTCTGTCCCCACC
CGGTGCTGGCCACCCGGCTAGAGACGGCGTCTCAAGGCATCTGGAGGGCTTTCGTGGCTGCCAGGGCCTGGTC
TTTGTGCACTAACACGTCTCTCTGGGAAACGTCCCTTGTGAGGAGACGGCTCTTCTTTGAAATGAGGTCTAT
TAAAAGGAAAC

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FIGURE 5164

MKPPAACAGDMADAASPCSVVNDLRWDLQAQQIEERTRELIEQTKRVYDQVGTQEFEDVSYESTLKALADVEVTY
TVQRNILDFFQHVSPSKDIRTASTEADKKLSEFDVEMSMREDVYQRIVWLQEKVQKDSLREAAARYLERLIKLR
RNLHLPRETQENIKRIKKKLSLLCIDFNKNLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLKVTLYPHYF
PLLKKCHVPETRRKVEEAFNCRCKEENCAILKELVTLRAQKSRLGFGHTHADVLEMNMAKTSQTVATFLDELAQ
KLKPLGEQERAVILELKRAECERRGLPFDGRIRAWDMRYMNVQVEETRYCVDQNLKEYFPVQVTHGLLGIYQE
LLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFYLDLYPREGKYGHAACFGLQPGCLRQDGSRQIAIAAMVA
NFTKPTADAPSLQHDVEVETYFHEFGHVMHQLCSQAEFAMFSGTHVERDFVEAPSQMLENWWWEQEPLLMSRHY
RTGSAVPRELLEKLIERSQANTGLFNLRQIVLAKVDQALHTQTDADPAEYARLCQEILGVFPATPGTNMPATFGH
LAGGYDAQYYGYLWSEVYSMDMFHTRFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRRLGRDPKQDAFLLSK
GLQVGGCEPEPQVC

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FIGURE 5165

CTGGGGGGCTTTTCGGATCGGCAGGATGTACCCCCAGGGAAGGCACCCGACCCCGCTCCAGTCCGGCCAGCCCTT
CAAGTTCTCGATCTTGGAGATCTGCGACCGCATCAAAGAAGAATTCCAGTTTCTTCAGGCTCAATACCACAGCCT
CAAGCTAGAATGTGAGAAGCTGGCCAGCGAGAAGACGGAATGCAGCGACATTATGTCATGTATTATGAGATGTC
GTACGGGCTCAACATTGAAATGCATAAGCAGGCGGAGATTGTGAAGCGTCTGAGCGGTATCTGCGCTCAGATTAT
CCCCTTCCTGACCCAGGAGCATCAGCAGCAGGTGCTCCAGGCCGTAGAACGCGCCAAGCAGGTCACCGTGGGGGA
GCTGAACAGCCTCATCGGGCAGCAGCTCCAGCCGCTGTCCACCACGCACCCCTGTGCCCTCACCCCCGCC
AGCCGGGCTGGTGGGCGGCAGTGCTACGGGGCTGCTTGCTCTGTCTGGAGCCCTGGCTGCCCAGGCTCAGCTGGC
GGCGGCTGTCAAGGAGGACCGTGCGGGCGTGAGGCGGAGGGGTCCAGAGTGGAGAGAGCCCCGAGCAGGAGTGC
ATCTCCCTCGCCCCCTGAGAGTCTCGTGGAGGAGGAGCGACCGAGTGGCCCTGGTGGTGGCGGGAAGCAGAGAGC
AGATGAGAAGGAGCCATCAGGACCTTATGAAAGCGACGAAGACAAGAGTGATTACAATCTGGTGGTGGACGAGGA
CCAACCTCAGAGCCCCCAGCCCGGCTACCAACCCCTGCGGAAAGGTACCCATCTGCATTCTGCCCGTCGGGA
CCTGGTGGACAGTCCAGCCTCCTTGGCCTCTAGCCTTGGCTCACCGCTGCCTAGAGCCAAGGAGCTCATCTGAA
TGACCTTCCCGCCAGCACTCCTGCCTCCAAATCTGTGACTCCTCCCCGCCCCAGGACGCTTCCACCCCCGGGCC
CAGCTCGGCCAGTCACTCTGCCAGCTTGCTGCCAAGCCAGCACCTTCCACGGACAGCGTCGCCCTGAGGAGCCC
CCTGACTCTGTCCAGTCCCTTACCACGTCTTACGCTGGGCTCCACAGCACTCTCAACGGAGACCTCTCCGT
GCCCAGCTCCTACGTCAGCTCCACCTGTCCCCCAGGTCAGCAGCTCTGTGGTGTACGGACGCTCCCCGTGAT
GGCATTGTGAGTCTCATCCCCATCTCCGAGGGTCATCCGTCTCTTCTCCCTACCCAGCATCCCTGGGGGAAAGCC
GGCCTACTCCTTCCACGTGTCTGCGGACGGGCAGATGCAGCCGGTTCCCTTCCCCCTCGGATGCACTGGTAGGCGC
GGGCATCCCCGCGGCACGCCCGGCAGCTGCACACGCTGGCCCATGGCGAGGTGGTCTGCGCGGTACCATCAGCGG
CTCCACACAGCATGTGTACACGGGCGGCAAGGGCTGTGTGAAGGTGTGGGACGTGGGCCAGCCTGGGGCCAAGAC
GCCCCTGGCCCAGCTCGACTGCCTGAACCGAGACAATACTATTCTTCTGCAAGTTGCTGCCGGATGGCCGGAG
TCTGATCGTGGGCGGTGAGGCCAGCACCTTGTCCATTGGGACCTGGCGGCGCCACCCCCGTATCAAGGCCGA
GCTGACTTCTCAGCCCCAGCCTGCTACGCCCTGGCCGTACGCCCCGACGCCAAGGTTGCTTCTCCTGCTGCAG
CGATGGCAACATTGTGGTCTGGGACCTGCAGAATCAGACTATGGTCAGGCAGTTCCAGGGCCACACGGACGGCGC
CAGCTGCATTGATATTTCCGATTACGGCACTCGGCTCTGGACAGGGGCTGGACAACACGGTGCCTGCTGGGA
CCTGCGGGAGGGCCGCCAGCTGCAGCAGCATGACTTCAGCTCCCAGATTTTCTCCCTGGGCCACTGCCCTAACCA
GGACTGGCTGGCGGTGGAATGGAGAGTAGCAACGTGGAGATCCTGCACGTCCGCAAGCCGAGAAATACCAGCT
GCACCTCCACGAGAGCTGCGTGTCTGCTCCCTGAAGTTTGCTCCTGCGGACGGTGGTTTGTGAGCACCGGGAAGGA
CAACCTGCTCAACGCTGGAGGACGCCGTACGGGGCCAGCATTTTCCAGTCCAAGGAGTCGTCTCAGTCCCTGAG
TTGTGACATCTCCAGAAATAACAAATACATCGTGACAGGCTCGGGGGACAAGAAGGCCACCGTGTATGAGGTGGT
CTACTGAGACATGACCCCC

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FIGURE 5166

GCCGCACTGAGCCACAGCCCCGGGGGCCGCTCCCGGGGCCCTTGAGGCACTGAGGCACCGAGACTGGTTCTCC
CCGAGAGACTCGGAAGGTGGGGAACGAGGGGACTGTGTTTGGGGAGGTGGCTTTTTTCGTCTGCTGTTGACTGAAC
ACTACAGCGCCCTGTGGTTCCGGGCTTCGCACAGCTGTCCCAGGGATGGATCGCCTGTGCTGCCTTCGCCCGCCG
CCACACCGGGACCCCTGCACGGCTGCTTCTGGCCTCGACAGATGACAAAAGAAACAGCCCCAAAATACGACCACTC
CAACCAGCAGTTCCCGCCTGCCTGCCCCGCCACTGTCAGGCCTGCCCTGGCCTCCTCGTCCGCAGGGCTGTCTGCT
GGCTTCTGGGGGCAGAAGAGCGGGGAGCCCCGTGGAAGGGTCAGGGGAGACCAGGTCAGGGCAGCTACATTTCTG
GTGATCAGCCCCATGGGGAGACGGGGCTGGCGGGATACCCCCCCCCGGCTTCCCCACACCACTTCTGTCTCACC
CGGAAGCGTCCTTTTTTTGTGCCAGGTGTCTACCTAAGAGGGTTGGTGCCAGAAGCCCCCATGGCGAGTGCTGG
GGCCCGGCGGTGCCCTGGGGGAGCAGATGGGGCCACCCCTGGCAGGGCCGCTACAACCTTTTCCAGCAGCGGAGC
CCTCTGGGGGGCCTGTGCTTGTGGCATCTCTGAGGGCCTAGATTGCACAAGGTGACCTGGCCGTGGCCTGAGGGT
GGAGTCGCCCAGCACGCAGGCCGGGGCGCTGCGGGGCTAAGTATTAGGCCTTCCCAGGGAGGGGGCGTGCCAAGC
ATCCCAGAGCCGGGCTGGGACCGCCAAAACGTCGTCGGCCTGGATCCTCTGGGTCTGAGTGCTGATCCCCTGCCC
CCCCAAAAGCAGAGGTAGGTGTTGCAGGCCAGGGCAGGGGTGCCTGCCCCAGGAGAGTCCCAGGCAGTGTTTC
TCGTGCCAGTGGCACCCAGGGGCAAGGACAGCCAACCCCCACCCTTGCCACGTGTGGGGCCACGTGGGCATGTGG
GGTGTGTGTTTTTACCTTGGTGAATCTCACCTGCCAACGATTTCTCGTGAGTGCCAATGTCCCCCAGTGGTGGCA
GCAGATCCTGTGGCCGGCCTGGCGGACGGGACCCAGTGATACTTGTATATTACACAGTCTGATTTTCAGACAATT
TCAACCTTAATCTATTTAAAAAAGAATATTCTATACAAGCTGTTTTTAAGCCTTTTACCATTTGAAATGCATGTG
TTGTGCGCGTTGGGGATGGGAGGAGGGGCTGAGGAGCGGCTCAGTGTACCTCCCACAGCCACCGGCCCTGACCC
TTAATCCAGACACCGATGGAAGTCGACTTTTCATATCTTCTCCTGAAATGAACTCTGTTTTTAAATTGGAATAAA
TTTTGTTCTT

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FIGURE 5167

MDRLCCLRPPPHRDPARLLLASTDDKRNSPKIRPLQPAVPACLPATVRPALASSSAGLSAGFWGQKSGEPRGRVR
GDQVRAATFLVISPMGRRGWRDTPPPASPHHFCLTRKRPFFVPGVYLRLVPEAPHGECWGPVFPWGSRWGHPWQ
GRYNLFQQRSPLGGCLWHL

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FIGURE 5168

GGCCGCCCCGGCGCCCCCAGCAGCCCGAGCCGGGGCGCACAGCCGGGGCGCAGCCCGCGCCCCCGCCGCGATTGA
CATGATGTTTCCACAAAGCAGGCATTCGGGGCTCCTCGCACCTACCCAGCAACTCAAATTCACCACCTCGGACTC
CTGCGACCGCATCAAAGACGAATTTAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT
GGCCAGTGAGAAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCCTACGGCTTGAACATCGAGAT
GCACAAACAGGCTGAGATCGTCAAAAGGCTGAACGGGATTTGTGCCCAGGTCTGCCCTACCTCTCCCAAGAGCA
CCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTCACCGCTCCCGAGCTGAACTCTATCATCCGACA
GCAGCTCCAAGCCCCACCAGCTGTCCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCCACTACCCGTGGGGCTGCA
GCCGCTTCGCTGCCGGCGGTGAGCGCAGGCACCGGCCTCCTCTCGCTGTCCGCGCTGGGTTCACAGGCCACCT
CTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATTAGCAGGG
GGCCGGGACAGGGAGGTTGGGAGGGGGGACAGAGGGGAGACAGAGGCACGGAGAGAAAGGAATGTTTAGCACAAG
ACACAGCGGAGCTCGGGATTGGCTAAACTCCCATAGTATTTATGGTGGCCGCCGGCGGGGGCCCCAGCCCAGCTT
GCAGGCCACCTCTAGCTTTCTTCTACCCCATTCCTCGGCTTCCCTCCTCCTCCCTGCAGCCTGGTTAGGTGGAT
ACCTGCCCTGACATGTGAGGCAAGCTAAGGCCTGGAGGGTCAGATGGGAGACCAGGTCCCAAGGGAGCAAGACCT
CGCGAAGCGCAGCAGCCCCGGCCCTTCCCCCGTTTTGAACATGTGTAACCGACAGTCTGCCTGGGCCACAGCCCT
CTCACCTGGTACTGCATGCACGCAATGCTAGCTGCCCCCTTCCCGTCTGGGCACCCCGAGTCTCCCCCGACCC
CGGGTCCCAGGTATGCTCCACCTCCACCTGCCCCACTACCACCTCTGCTAGTTCCAGACACCTCCACGCCCCAC
CTGGTCTCTCCATCGCCCCACAAAGGGGGGGCACGAGGGACGAGCTTAGCTGAGCTGGGAGGAGCAGGGTGAG
GGTGGGCGACCCAGGATTCCCCCTCCCCTTCCCAATAAAGATGAGGGTACT

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FIGURE 5169

ATGGACCAGGACTATGAGCGGCGCCTGCTTCGCCAGATCGTCATCCAGAATGAGAACACGATGCCACGCGTCACA
GAGATGCGGCGGACCCCTGACGCCTGCCAGCTCCCCAGTGTCTCGCCCAGCAAGCACGGAGACCGCTTCATCCCC
TCCAGAGCCGGAGCCAACTGGAGCGTGAACCTTCCACAGGATTAACGAGAATGAGAAGTCTCCCAGTCAGAACC GG
AAAGCCAAGGACGCCACCTCAGACAACGGCAAAGACGGCCTGGCCTACTCTGCCCTGCTCAAGAATGAGCTGCTG
GGTGCCGGCATCGAGAAGGTGCAGGACCCGCAGACTGAGGACCGCAGGCTGCAGCCCTCCACGCCTGAGAAGAAG
GGTCTGTTACGTATTCCCTTAGCACCAAGCGCTCCAGCCCCGATGACGGCAACGATGTGTCTCCCTACTCCCTG
TCTCCCGTCAGCAACAAGAGCCAGAAGCTGCTCCGGTCCCCCGGAAACCCACCCGCAAGATCTCCAAGATCCCC
TTCAAGGTGCTGGACGCGCCCGAGCTGCAGGACGACTTCTACCTCAATCTGGTGGACTGGTCGTCCCTCAATGTG
CTCAGCGTGGGGCTAGGCACCTGCGTGTACCTGTGGAGTGCTGTACCAGCCAGGTGACGCGGCTCTGTGACCTC
TCAGTGGAAGGGGACTCAGTGACCTCCGTGGGCTGGTCTGAGCGGGGGAACCTGGTGGCGGTGGGCACACACAAG
GGCTTCGTGCAGATCTGGGACGCAGCCGCAGGGAAGAAGCTGTCCATGTTGGAGGGCCACACGGCACGCGTCGGG
GCGCTGGCCTGGAATGCTGAGCAGCTGTCGTCCGGGAGCCGCGACCGCATGATCCTGCAGAGGGACATCCGCACC
CCGCCACTGCAGTCGGAGCGCGGCTGCAGGGCCACCGGCAGGAGGTGTGCGGGCTCAAGTGGTCCACAGACCAC
CATCTCCTCGCCTCGGGGGGCAACGACAACAAGCTGCTGGTCTGGAATCACTCGAGCCTGAGCCCCGTGCAGCAG
TACACGGAGCACCTGGCGGCCGTGAAGGCAATCGCCTGGTCCCCACATCAGCACGGGCTGCTGGCCTCGGGGGGC
GGCACAGCTGACCGCTGTATCCGCTTCTGGAACACGCTGACAGGACAACCACTGCAGTGTATCGACACGGGCTCC
CAAGTGTGCAATCTGGCCTGGTCCAAGCACGCCAACGAGCTGGTGAGCACGCACGGTTACTCACAGAACCAGATC
CTTGTCTGGAAGTACCCCTCCCTGACCCAGGTGGCCAAGCTGACCGGGCACTCCTACCGCGTGCTGTACCTGGCA
ATGTCCCCTGATGGGGAGGCCATCGTCACTGGTGCTGGAGACGAGACCCCTGAGGTTCTGGAACGTCTTTAGCAAA
ACCCGTTCGACAAAGGTAAAGTGGGAGTCTGTGTCTGTGCTCAACCTCTTCACCAGGATCCGGTAA

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FIGURE 5170

MDQDYERRLLRQIVIQNENTMPRVTEMRRTLTPASSPVSSPSKHGDRFIPSRAGANWSVNFHRINENEKSPSQNR
KAKDATSDNGKDGLAYSALLKNELLGAGIEKVQDPQTEDRRLOPSTPEKKGLFTYSLSTKRSSPDDGNDVSPYSL
SPVSNKSQKLLRSPRKPTRKISKIPFKVLDAPELQDDFYLNLDWSSLNVLVGLGTCVYLWSACTSQVTRLCDL
SVEGDSVTISVGWSEGRNLVAVGTHKGFVQIWDAAAGKKLSMLEGHTARVGALAWNAEQLSSGSRDRMILQDIRT
PPLQSEERRLOGHRQEVCGWKWSTDHLLASGGNDNKLLVWNHSSLSPVQQYTEHLAAVKAIASPHQHGLLASGG
GTADRCIRFWNTLTGQPLQCIDTGSQVCNLAWSKHANELVSTHGYSQNIILVWKYPSLTQVAKLTGHSYRVLYLA
MSPDGEAIVTGAGDETLRFWNVFSKTRSTKVKWESVSVLNLFTIR

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FIGURE 5171

TTTCCCGAGATCACCAAGATGCTGGGCGCCGAGTGGAGCAAGCTGCAGCCAACGGAAAAGCAGCGGTACCTGGAT
GAGGCCGAGAGAGAGAAGCAGCAGTACATGAAGGAGCTGCGGGCGTACCAGCAGTCTGAAGCCTATAAGATGTGC
ACGGAGAAGATCCAGGAGAAGAAGATCAAGAAAGAAGACTCGAGCTCTGGGCTCATGAACACTCTCCTGAATGGA
CACAAGGGTGGGGACTGCGATGGCTTCTCCACCTTCGATGTTCCCATCTTCACTGAAGAGTTCTTGACCAAAAC
AAAGCGCGTGAGGCGGAGCTTCGGCGCTTGCGGAAGATGAATGTGGCCTTCGAGGAGCAGAACGCGGTACTGCAG
AGGCAAAACGCAGAGCATGAGCAGCGCGCGAGCGTCTGGAGCAGGAGCTGGCGCTGGAGGAGCGGAGGACGCT
GGCGCTGCAGCAGCAGCTCCAGGCCGTGCGCCAGGCGCTCACCGCCAGCTTCGCCTCACTGCCGGTGCCGGGCAC
GGGCGAAAACGCCCACGCTGGGCACTCTGGACTTCTACATGGCCCCGGCTTCACGGAGCCATCGAGCGCGACCCCGC
CCAGCACGAGAAGCTCATCGTCCGCATCAAGGAAATCCTGGCCCCAGGTCGCCAGCGAGCACCTGTGAGGAGTGGG
CGGGCCCCACGATGCAGAGGAGAAGCTGTGGGCGCGGCCCTGCCACACCCCAACCCGTGGACGAGAGGCTGGGGGT
CCACCCCTTTGGGGCCTGGTCCCATCCTGCACCTTTGGGGGCTCCAGCCCCCTAAAATTAAATTTCTGCAGCATC
CCTTTAGCTTTCAATCTCCCCAGCCCCCTGAACCCGGAAAAAGCACTCGCTGCGCGATACACCCAGAAGAACCTC
ACAGCCGAGGGTGCCCCCTCCTCGGAGGACAGCCACGCGCTACACTGGCTCTCCGGGGCCACCCCAAGACACAGGG
CAGACGAAACCCACCCCAAGCACACGGCAGGACCCCCCAAATTACTACTACGGGGGGCTGTGCCATAGGCCACA
CAGGAAGCTGCCTTGTGGGGACTTACCTGGGGTGTCCCCGCATGCCTGTACCCCAAGATGGGTGGGGGCCGGCTT
TGCCCATCCTGCTCTCCTCCAGCCGAGGGACCCTGGTGGGGGTGGCTCCTTCTCACTGCTGGATCCGGACTTTTT
AAATAAAAAACAAGTAAATTTGTGTTTTAAAA

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FIGURE 5172

MLGAEWSKLQPTKQRYLDEAEREKQQYMKELRAYQQSEAYKMCTEKIQEKKIKKEDSSSGLMNTLLNGHKGGDC
DGFSTFDVPIFTEEFLDQNKAREAELRRLRKMNVAFEEQNAVLQRQNAEHEQRARASGAGAGAGGAEDAGAAAAA
PGRAPGAHRQLRLTAGAGHGRNAHAGHSGLLHGPAASRSHRARPRPAREAHREPHQGNPGPGRQAPVRSGRAHDAE
EKLWARPCHTPPRGREAGGPPFGAWSHAPAPLGAPAPLKLNFCSIPLAFNLPSPLNPEKALAARYTQKNLTAE GAP
PRRTATRYTGSPGHPQDTGQTKPTPSTRQDPPNYSLRGAVP

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FIGURE 5173

GCGCCAGGCCCCGCTGGGGCAGGTGTCCCGTGGAATCGACGGAGGGGCTGCCGTGGGCGGCCGTGACAGTCACAG
AGAGGGGAAGAGAAAACAGGGACGGTGACACACACAGAGAGAAGGAAGAGCAGACAGAGGCACAGCAGGAGACCC
CCCCAAGCCCGAGGAGGACAGCCTGGGGATGCAGAGCACATGCCGGCCCCAGTGAGGGGAACCGATTTCGCCGA
GCCGGGAGGCAAGCCTGGGGCTCCCCCTGCCCTGTCCCTGCCGGTAGCCCCCCCAGCCGTCTCCCCACCATCTGTC
CCGCTGCCGTCCCACCAGGTGGGAGCCATGTTCTGAGCCCCGGGCGAGGGGCGGCAACCGAGGGTGGGGGTCTG
GGGCGGGGCGAGGAGGCCCAAGAAGAAGCACCAGGAGGAACCGCACACCTTCACCACCTACCAGCTGCACCAG
CTGGAGCGGGCGTTTCGAGGCCTCTCACTACCCGGATGTGTACAGCCGTGAGGAGCTGGCAGCCAAGGTGCACCTA
CCTGAGGTGCGCGTGCAGGTGTGGTTCCAGAACCAGCCGGGCCAAGTGGCGCCGCCAGGAGCGGCTGGAGTCAGGC
TCGGGTGCCGTGGCAGCTCCGAGACTCCCCGAGGCCCCAGCGCTGCCGTTCGCCCCCCCCCGGCCATGTCGCTG
CCCCCTGGAGCCCTGGTTGGGCCCCGACCGCCGGCCGTGCCAGGCCTCCCCCGCCTCCTGGGCCCCGGGCCCCGGG
CTGCAAGCGTCCTTCGGGCCTCATGCCTTTGCTCCCACCTTCGCAGATGGCTTCGCCCTGGAGGAGGCGTCCCTG
CGGCTGCTGGCCAAGGAACATGCACAGGCTCTGGACAGGGCTGGCCGCCAGCCTGAGCCTGCCGCCCTCCCCGG
CCCCCTCCTCGGCCCAACCCGAGAACCAGGGGACGTGCCCTGGTGACAGCCACCACGCCTTGGCCTAGGCCGAGGT
CATGGAGCAACCGTGGTCAGGCCAGGCCACCACCCTGGGGAGCGGGACCAGAGAGACAGGCTGCTGGGTTCCCT
GCCCCATCCCGTCTCCACCCCCATCGCCACCCGTCTGCTGGCAGCGGACTGGCCCCAGTGTACAGCAGGAGG
TGACCCAAGTATTCTCAGGCCAGGTGCGGGGACCTCCTCCCCCTCCTGGGGCCTCAGTCTCCTGTCTGTTAATTGG
GCGTGGGGGCTCCGAGGTTTCGAGGGCTGCGAGGCTGTGGGTGGCGGGACCGCTGACTCTGTAAGATGAGTGTA
ATCTCTCTGCTTCTCCTAATCCCCATCAGCAGAGCTGCCACTCTCCAGGCTCCAGTCCCCCTGGAAATAACAAA
TAGCAGCAGCTCCCGCGAGCCTGGTCTCCTCTCACCGTGTGCTCGCCATGTGAGCACTCCCCCTCCTCGTTGTGCC
CTGGACCTCGGGCACAGCTGTACAGCCATTCTATAGAGAGGGAAACCGGGCTTAGGCAGGAAGCCAGGTCCCCA
AAGTCGCACGGCCAGGAGTGGATGGAGCTGCCTTTTCAGACCCATCACCGGTCCTACCGTCCGGGGCACAGCGACA
GGTTCTGGAGAGAGGGTGGGTCCCGGGCCAGGTGCTGGTGGGCCTCCAGGTGGAGGCGGGCTGATGCTGGGTGTG
TCGTATCGTCAGACCGTTCTCACGTCCCCACAGACCCAGGCCCTGTGCATGTCCCCAGTGAGGCATGGCCA
GCATCTGCTCTGTCCAACCCAGTCGCATCGCCCAAGAGCTCTGAGCAAGGAGGCTGTCGCGGGGCGGAGAACCCG
CTGGGACTGGCAAGCACGGCTGGCCAGTGCGAGCAGGAGGGGGCCCTGAGGCATGGGATGGGACAGTCTGGGCCA
GCGCCACCTCCCGGGACAGAAGTGCGGCACAGGGCAGGAGCTGCAGTAGCTACCCCTCCCCGTCTCCAGCCTGGG
CTCCCCAGATCACTCCAGATCACAGGTCACCCCATCTCTAGGCGGCACCTCACACACAGTCCTGTGGTCCAA
CGCCCCGCCATCACCAATGTACCGCACACCAGGCACTGGGGACACGGCAGTAAGCACAAAGAAAGATTTTTTTT
TTTTTAAAGCTAAACCAGGCCAGGTGCGGTGGCTCATGCCTGTAATCCAGTGCTTTGGGAGGCTGAGGTGGGAG
GATTGCTTGAGACCAGCCTGGGTGACACAGCAAGACCCCATCTCCACAAACGTTTTTAAATGTGCCGGGTGTAC
TGGTGCACACCTGTATCCAGCTACCCAAGAAGCTGAGGCAAGAGGATCACTTGAGCCCAGAAGGTGAGGCTG
CAGGGAGCTGTGATCACACTGCTGCACTCCAGCCTGTGCAACAGAGCCAGACCCTGACTCAATACAAATAAAAC
CAAATCTAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5174

MFLSPGEGPATEGGGLGPGGEEAPKKKHRRNRTTFTTYQLHQLERAFAEASHYPDVYSREELAAKVHLPEVRVQVWF
QNRRAKWRRQERLESGSGAVAAPRLPEAPALPFARPPAMSLPLEPWLGPGPFAVPGLPRLLGPGPGLQASFGPHA
FAPTFADGFALEEASLRLLAKEHAQALDRAWPPA

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FIGURE 5175

GGCCGGCGGGCGGGCGGGCGGGCGGGAGAGACCGCAGTGCGGGCCGGCGCTAGGACCCGCGGGGGCCTCCCAGGCC
GCGGCGCCTCCCGCTTTCCCCCACTCCCCGACCCTTCTTCGCCCCCAAAATGAGGAAACGGAGCAACTCGCTCCA
AGTTGTGCAGCCGGGACCGCCTCGGGGTGTGCAGCCGGCTCGCGGAGGCCCTCCTGGGGGCGGGCGCGGGGCGCG
GCTCGGGGGCGCCCCCTGAGCAGAAAACAGGAAGAACCAGGCTCGGTCCAGTGGCACCCAGCTCCCTACCTCCTG
TGCCAGCCGACTGGCCTGTGGCAGGCCATTCCCAGCGTCCCCGACTGTGACCACTTGCTCAGTGTGCCTCTCACC
TGCTCAGTTTCCCTCTGGGGGCGATGGCGGGGCGAGGCTCTCTGGTTTCTTGGCGGGCATTTCACGGCTGTGAT
TCTGCTGAGGAACTTCCCCGGGTGAGCCCCGCTTCCCTCCGAGCCTGGCACCCCCCTCCCGTCTCAGCCAGGATG
CCAACGAGGCGCTGGGCCCCGGGCACCCAGTGTATCACCAATGCGAGCACACCCGCCCAAGCCAGGGGAGCTG
GCCTTCCGCAAGGGCGACGTGGTCACCATCCTGGAGGCCTGCGAGAACAAGAGCTGGTACCGCGTCAAGCACCAC
ACCAGTGGACAGGAGGGGCTGCTGGCAGCTGGGGCGCTGCGGGAGCGGGAGGCCCTCTCCGAGACCCCCAAGCTC
AGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGCAGCCTCCCGAGGATGGG
CTGTTCTTGGTGCGGGAGTCCGCGCGCCACCCGGCGACTACGTCTGTGCGTGAGCTTTGGCCGCGACGTCACTC
CACTACCGCGTGTGTCACCGCGACGGCCACCTCACAATCGATGAGGCCGTGTCTTCTGCAACCTCATGGACATG
GTGGAGCATTACAGCAAGGACAAGGGCGCTATCTGCACCAAGCTGGTGAGACCAAGCGGAAACACGGGACCAAG
TCGGCCGAGGAGGAGCTGGCCAGGGCGGGCTGGTTACTGAACCTGCAGCATTGACATTGGGAGCACAGATCGGA
GAGGGAGAGTTTGGAGCTGTCCTGCAGGGTGAGTACCTGGGGCAAAAGGTGGCCGTGAAGAATATCAAGTGTGAT
GTGACAGCCCAGGCCTTCCCTGGACGAGACGGCCGTCATGACGAAGATGCAACACGAGAACCTGGTGCCTCTCCTG
GGCGTGATCCTGCACCAGGGGCTGTACATTGTCTATGGAGCACGTGAGCAAGGGCAACCTGGTGAACCTTCTGCGG
ACCCGGGGTCGAGCCCTCGTGAACACCGCTCAGCTCCTGCAGTTTTCTCTGCACGTGGCCGAGGGCATGGAGTAC
CTGGAGAGCAAGAAGCTTGTGCACCGCGACCTGGCCGCCCGCAACATCCTGGTCTCAGAGGACCTGGTGGCCAAG
GTCAGCGACTTTGGCCTGGCCAAAGCCGAGCGGAAGGGGCTAGACTCAAGCCGGCTGCCCCGTCAGTGGACGGCG
CCCGAGGCTCTCAAACACGGGAAGTTACCAGCAAGTCGGATGTCTGGAGTTTGGGGTGCTGCTCTGGGAGGTC
TTCTCATATGGACGGGCTCCGTACCCTAAAATGTCACTGAAAGAGGTGTGCGAGGCCGTGGAGAAGGGGTACCGC
ATGGAACCCCCGAGGGCTGTCCAGGCCCCGTGCACGTCTCATGAGCAGCTGCTGGGAGGCAGAGCCCCGCCGCG
CGGCCACCTTCCGCAAACCTGGCCGAGAAGCTGGCCCGGGAGCTACGCAGTGCAGGTGCCCCAGCCTCCGTCTCA
GGGCAGGACGCCGACGGCTCCACCTCGCCCCGAAGCCAGGAGCCCTGACCCACCCGGTGGGGCCCTTGGCCCCA
GAGGACCGAGAGAGTGGAGAGTGCGGCGTGGGGGCACTGACCAGGCCCAAGGAGGGTCCAGGCGGGCAAGTCATC
CTCCTGGTGCCACAGCAGGGGCTGGCCACGTAGGGGGCTCTGGGCGGCCCGTGGACACCCAGACCTGCGAAG
GATGATCGCCCGATAAAGACGGATTCTAAGG

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FIGURE 5176A

GGAAGCCGAGCCTCTGCCAGCCCTGAGCTGGGAAGAAGCAGCTACCTCGGAGGCAGGGCGCGCAGGCGGGCGGCG
ATGAGAGGGGGCGCAGCCGCAGCCCCGCGCTGGGGAGCCCACCGCTAACCTGCACCCACCCACCCCTGCACAA
AAGAGCTGGCGGGCGCTGGCCACGTCGCCCTGGGTGACCTTCCTCGGATGCAGAATCCGCCCTGCGAGCATCCT
CTTCTCTCTAGGCTCTGAAGGCCCGGGGAGCGTGAGCGATGCCAGCTGCACCCGGGCAGGGCTCGCCTTTGTTT
GCCAGTAAGGAGGAGAGGCTGTCTCAGCTGCAGAGGGGTTCATCCCTGCTTCAAGCCAGTGCCCTTCCCAGCTCC
CATGGGGACCACCGAAGCCACGCTCCGGATGGAACAGTGACGTGAAGGAGGAATGGCAGGACGAAGATCTTCC
CAGGCCACTCCCAGAAGAGACGGGGGTGGAACGTGGCAGCCCGGTGGAAGACACATCCTCTCCTCCCAACAC
GCTAAATTTCAACGAGCGCATCGTAAGAGGAAGACGCTGGTGGCCCCAGAGATCAACATTTCTCTGGATCAGAG
TGAGGGGTCCCTGCTGTCCGATGACTTCTTGGATACCCCTGATGACCTGGATATTAACGTGGATGACATCGAGAC
CCCCGATGAGACCGACTCGCTGGAGTTCTTGGGAATGGCAACGAACTGGAGTGGGAAGACGACACCCCGTGGC
CACCGCCAAGAATGCCCCGGGGACAGCGCGGATCTATTTGGGGACGGCACGACGGAGGACGGCAGCGCCGCCAA
CGGGCGCCTGTGGCGGACAGTGATCATCGGGGAGCAAGAGCACCGTATAGACCTGCACATGATCCGGCCTTACAT
GAAAGTGGTCACCCACGGAGGGTACTACGGCGAAGGCCTCAACGCCATCATCGTCTTCGCAGCCTGCTTCCTTCC
AGACAGCAGCCTCCCCGACTACCACTACATCATGGAGAACCTCTTCTGTACGTATCAGCAGCTTAGAGCTCCT
GGTGGCTGAGGACTACATGATCGTGTACCTGAACGGTGCCACGCCCGGGCGGAGGATGCCTGGAATCGGCTGGCT
GAAGAAGTGCTACCAGATGATCGACCGGAGGTTGCGGAAAAACCTGAAGTCTTGATCATCGTCCACCCCTCGTG
GTTCAATTCGGAATGTGTGGCCATCTCTCGCCCTTTTCATCAGCGTCAAGTTTCATCAACAAGATCCAGTACGTGCA
CAGCTTGAAGACCTGGAGCAACTCATCCCTATGGAACACGTCCAGATCCCAGACTGCGTCTGCAATACGAAGA
GGAAAGACTGAAGGCCAGGAGGGAGAGCGCGAGGCCCCAGCCGGAGTTGTGCTGCCAGGTCTGAAGAGAAGCC
AGAGGTGGCACCAGTGGAAAAACAGGTCTGCTCTGGTCTCAGAAGATCAGGAAACAAGCATGTCTCGAGGGCGACGT
GAGCATAACAAAGGACATGGAAGAAGATTCCAGATGCCAGAAAACCTCTGTCAGACGCCCACTGGCCCCAGATCT
CATCTGCTCATCTGAGTCCCAATCTTCCAAGGTGCCAGCCCTCCGTTTCATCTCTGAAACCCAGCATCCTT
TTCAGCTGCTTGAAAAACATTGTATTTTTTTTTTTTTTAAACGATGCAGTATTTGTGCGTTCCAGAAAAGGGCCCAGCT
CTGAGCCCCCTACCCCTTCCACACTCACGAACCTCTCAGCCGAGGAAGGCAAGAAGCGCAGGGGGTGGCCCGCTGG
CGTCGGTGGCCTCCGCTCCTGCTCGCAGCCTCTGTGGTCAGAGCTGGATACAAGATTCAAGACCCTTCTCTTGCT
TGTCACCCGCTCCAGGTTGGAGCCACAGACACCCACCGCCACCCCGGCTGGGTCTGCGTCTTTCTGTGCTTT
CCCTCCAGAATGCGGCCCTCAGACCTAGAAGCTCAACCCCTATGAGGGCCACGTCCTGGGGTAGCTCCTGACCT
CCGACCTTATGTCCAAATTTACACCCATGTTTTTCAATTTGACCCGCCCCCTTCTCGCTCATAATGACACCCAG
CTCCTTTGAGAGGATCAGAGCCCATTGCACAAGAAGAGCCGCTGCCAACCATCCTTGCTCTCCGATTGCAAAATG
ACACCCAGTAATCTAGAACATTCTCAAGCCCTTTAACTCAGATGTCAAGCCACCGGGCAAACCCCGTCAATAC
CTCCCACCAAGGAATGAGATATGTGGACCTCACTGCTCCCCAACCCAGCGTCAGGCTGGGACACGCCAACGCTG
TTCCGGGTTGGAACAGCAGAGGCTCAGAACTGGCTCTGAAATAGGCAGACCTAGCAAGAGGAAGATACAGGGTA
TCGGGCGTTTGAGTGTTCAGAAGTCATTGGGAAGATAAATCCAGTGCCTGGCCGACGCCACCTGCATTCAAA
GCTTGGACCAGCGGTTCTTGTTCGGGAGGCAAATTTCCCTAGGAAAAAGAAGACAGACTTTTCTAATGTGGTCC
AAATGCGGATCACTGGTCAGATGGACTCTAGAAGCACTGAGCTCCCTGTCTCTGGAAGTATTTAAGAAAAGGCTG
GGCCAGGCACGATGGCTCACGCTGTAATCCCAGACTTTGGGAGGCCGAGGCAGGCGGATCACCTGAGGTGAGGA
GTTTGAGAACAGCCTGGCCAACATGGTGAAACCTCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGC
AGGTGCTGTAATCCCAGCTACTTGGGAGGCTGAGGCATGAGAATCACTTAAACCTGAGAGGCAGAGGTTACAGT
GAGCCAAGATCGTGCCACTGCATTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAAATAAAAAATAAT
CAGGGCACAGTGGCTCATGCTGTAATCCCAGCACTCTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGAGGAG
TTCAAGACCAGCCTGGTGAACATGGCGAAACCCCGTCTCTAATAAAAAATACAAAAATTAGCCGGGCATGGTGGT
CATGCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAACCCAGGAGGCAGAGGTTGCAGTG
ATCCAAGATCATGCCACTGCACTCCAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAATAAAAAAGAAAAGAA
AGAATGGACAGTGTGTCAGAGAGTTGCTCACGAGTTTCCCTCTAATCCTAAATGTCTTATGTCTATCAGTCTG
AGCAGACGGTGAGTAGGGCGGGCACATTCTCCAGGCCCTTCTTCTAGCTCTGTGGTTGACCTCTCAGCAAGTGC
TATCCAGGCTGGGCCAACAGACCCACAATTAAGTGCCTCAGTGAAAGCGTCCAGTGATCTTGACCTGAGAC
AGCAAGGAATTGCATTTGGGGTTATTCCAACGATGATGGCAGGGAACGGTGGTATTTAGTGCTGAGGGGCAGTG
ATACAGAAAGATTTGCCCTGTGGGACAGGGTCTGCGCGAGTCCCATCCCCAAAGCCAGCAGCTCCTGCCATGA

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FIGURE 5176B

GGAAGACGGGGTTTCTGAGCAGGCTTATGCCTGCAGGTTCTGTGGAGCCACCGGCTGTGACGGGACACCTCTGG
GTCTCAGCATTGCCCTGGGGAGGCTGGGACATTTAGGGACATGGTAGGGTTTTAACATTTGTTTCCCAAATGTCA
AATCCCGGGCACAGGGGCAAGACCCTGTCCCGAATTCCACCCCAAGTGAATGGTGTGCTGCTGCCAAAGCCAAACACA
AGATGACAAAAGTGGCTGGGTACGGTGGCTCACGCCTATAATCCAGCACTTTGGGAGACCGAGACAGGTGGATC
ACCTGAGGTCAGGAGTTCGAGACCAGGCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAG
CTGGGTGTGGTGGCGCGCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGTAGAAGAATAGCTGGAACCCAGGAG
GCAGAGATTGCAGTCAGCCGAGATTGCACCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTGACTCAAAAGAA
AAAAATGACAGAAGCCTGATTATCAGACTGCCCGGAGGAGACAGGCTCCAGCAGATAGATGCCAGCCAGGCCCA
GCTGCCACGATTTGTCCCAGGTGACCAAAGGCACGCAGCTCCAGCATGAATCGTTCTAACCCAACAGTGACAAGA
ACTGCTGGGCCTTAACCGTCATGGAAGACTGGGGCCGCTTCCAAGTCACAGACAGGAGACGGGGACAGGAAAGAA
CTCATTCCACCCAATCGGACACCTAATAATTGAGTGTCTACAGCAGCAATCAAGTGACAAGTGAGGCCCTACCTG
ACCCAGAAGGTGCCTGCCGGCTAAACATTCTGCCCCCACCAGAACTCCAGGGGGTCCGCCCCGTTATGCCGTGGC
CCACCCACGCCCCCTTTGGATCACCAGCAGTCACAGACAACAGGCAGGCGAACTGAAGACCCCAACTCAGCCCCA
GCGGACCCCTCCAGAGCAAAAGAGGCCCCCGGCGAGGCCACCTGTGCGCAGGCATGCCGAGGTCAAAACAGCCGGGG
CCACCGTTCCCAGCTGGGCCACGACCTGCACCGTCCACAGATGGGCTTTGAGATGGATTTGTATCAGGGTGGGGG
GTGTGGTTTGGCCAAAATGCAATGGACCCCGACCCCTCCTCGTAAAAGGATGTTGGGTTTCCCTCTGGTGACACA
TGGGATGCGTCATAAACCTCCCCCAAAGTCCTGGTCAGCAGCCCATCCTTCCAACGATGAGTTTTGCGGTTTTT
CAGAACAGAAATGATCACTACGATTGACGACGGTCGTGATGTTAAGACGTCGTCTCCATGAGCTTTGGGGGGACT
TTTATGTGAATAAAGAAACTATCACTG

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FIGURE 5177

MGTEATLRMENVDVKEEWQDEDLPRPLPEETGVELLGSPVEDTSSPPNTLNFNGAHRKRKTLVAPEINISLDQS
EGSLLSDDFLDTPDDLDINVDDIETPDETDSEFLGNGNELEWEDDTPVATAKNMPGDSADLFGDGTEDGSAAN
GRLWRTVIIGEQEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLPDYHYIMENFLYVISSLELL
VAEDYMIVYLNATPRRRMPGIGWLKKCYQMIDRRLRKNLKSIIIVHPSWFIRTVLAISRPFISVKFINKIQYVH
SLEDLEQLIPMEHVQIPDCVLQYEEERLKRRESARPQPEFVLPRSEEKPEVAPVENRSALVSEDQETSMS

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FIGURE 5178

ATGGTTAATTTTACGGTGGATCAGATCCGCGCCATCATGGACAAGAAGGCCAACATCCGCAACATGTCTGTTCATC
GCCCACGTGGACCATGGCAAGTCCACGCTGACAGACTCCCTGGTGTGCAAGGCGGGCATCATCGCCTCGGCCCGG
GCGGGGAGACACGCTTCACTGATACCCGGAAGGACGAGCAGGAGCGTTGCATCACCATCAAGTCAACTGCCATC
TCCCTCTTCTACGAGCTCTCGGAGAATGACTTGAACCTTCATCAAGCAGAGCAAGGACGGTGCCGGCTTCCTCATC
AACCTCATTGACTCCCCCGGGCATGTGCACTTCTCCTCGGAGGTGACTGCTGCCCTCCGAGTCACCGATGGCGCA
TTGGTGGTGGTGGACTGCGTGTGAGGCGTGTGCGTGCAGACGGAGACAGTGTGCGGCAGGCCATTGCCGAGCGC
ATCAAGCCTGTGCTGATGATGAACAAGATGGACCGCGCCCTGCTGGAGCTGCAGCTGGAGCCCAGGAGCTCTAC
CAGACTTTCCAGCGCATCGTGGAGAACGTGAACGTCATCATCTCCACCTACGGCGAGGGCGAGAGCGGCCCATG
GGCAACATCATGATCGATCCTGTCTCGGTACCGTGGGCTTTGGGTCTGGCCTCCACGGGTGGGCCTTACCCTG
AAGCAGTTTGGCGAGATGTATGTGGCCAAGTTCGCCGCCAAGGGGGAGGGCCAGTTGGGGCCTGCCGAGCGGGCC
AAGAAAGTAGAGGACATGATGAAGAAGCTGTGGGGTGACAGGTACTTTGACCCAGCCAACGGCAAGTTTCAGCAAG
TCAGCCACCAGCCCCGAAGGGAAGAAGCTGCCACGCACCTTCTGCCAGCTGATCCTGGACCCCATCTTCAAGGTG
TTTGATGCGATCATGAATTTCAAGAAAGAGGAGACAGCAAACTGATAGAGAACTGGACATCAAAGTGGACAGC
GAGGACAAGGACAAAGAAGGCAAACCCCTGCTGAAGGCTGTGATGCGCCGCTGGCTGCCTGCCGGAGACGCCTTG
TTGCAGATGATCACCATCCACCTGCCCTCCCCTGTGACGGCCAGAAAGTACCGCTGCGAGCTCCTGTACGAGGGG
CCCCGGGACGACGAGGCTGCCATGGGCATTAAGGCTGTGACCCCAAAGGCCCTCTTATGATGTATATTTCCAAA
ATGGTGCCAACCTCCGACAAAGGTCGGTTCTACGCCTTTGGACGAGTCTTCTCGGGGCTGGTCTCCACTGGCCTG
AAGGTCAGGATCATGGGGCCCAACTATACCCCTGGGAAGAAGGAGGACCTCTACCTGAAGCCAATCCAGAGAACA
ATCTTGATGATGGGCGCTACGTGGAGCCCATCGAGGATGTGCCTTGTGGGAACATTGTGGGCCTCGTGGGCGTG
GACCAGTTCTTGGTGAAGACGGGCAACATCACCACCTTCGAGCACGCGCACAAACATGCGGGTGATGAAGTTCAGC
GTCAGCCCTGTTGTCAGAGTGGCCGTGGAGGCCAAGAACCCGGCTGACCTGCCCAAGCTGGTGGAGGGGCTGAAG
CGGCTGGCCAAGTCCGACCCCATGGTGCAGTGCATCATCGAGGAGTCGGGAGAGCATATCATCGCGGGCGCCGGC
GAGCTGCACCTGGAGATCTGCCTGAAGGACCTGGAGGAGGACCACGCCTGCATCCCCATCAAGAAATCTGACCCG
GTCGTCTCGTACCGCGAGACGGTCAGTGAAGAGTCGAACGTGCTCTGCCTCTCCAAGTCCCCCAACAAGCACAAAC
CGGCTGTACATGAAGGCGCGGCCCTTCCCCGACGGCCTGGCCGAGGACATCGATAAAGGCGAGGTGTCCGCCCGT
CAGGAGCTCAAGCAGCGGGCGCGCTACCTGGCCGAGAAGTACGAGTGGGACGTGGCTGAGGCCCGCAAGATCTGG
TGCTTTGGGCCCCGACGGCACCGGCCCAACATCCTCACCAGATCACCAAGGGTGTGCAGTACCTCAACGAGATC
AAGGACAGTGTGGTGGCCGGCTTCCAGTGGGCCACCAAGGAGGGCGCACTGTGTGAGGAGAACATGCGGGGTGTG
CGCTTCGACGTCCACGACGTACCCCTGCACGCCGACGCCATCACCGCGGAGGGGGCCAGATCATCCCCACAGCA
CGGCGCTGCCTCTATGCCAGTGTGCTGACCGCCCAGCCACGCCTCATGGAGCCCATCTACCTTGTGGAGATCCAG
TGTCAGAGCAGGTGGTTCGGTGGCATCTACGGGTTTTGAACAGGAAGCGGGGCCACGTGTTGAGGAGTCCCAG
GTGGCCGGCACCCCCATGTTTGTGGTCAAGGCCTATCTGCCCGTCAACGAGTCTTTGGCTTACCGCTGACCTG
AGGTCCAACACGGGCGGCCAGGCGTTCCCCAGTGTGTGTTTGACCACTGGCAGATCCTGCCCGGAGACCCCTTC
GACAACAGCAGCCGCCCCAGCCAGGTGGTGGCGGAGACCCGCAAGCGCAAGGGCCTGAAAGAAGGCATCCCTGCC
CTGGACAACCTTCTGGACAAATTGTAGCGGCCCTTCTGCAGCGCCTGCCGCCCCGGGGACTCGCAGCACCCAC
AGCACACGTCTCTGAATTCTCAGACGACACCTGGAGACTGTCCCGACACAGCGACGCTCCCCTGAGAGGTTTCT
GGGGCCCGCTGCGTGCCATCACTCAACCATAACACTTGATGCCGTTTTCTTTCAATATTTATTTCCAGAGTCCGGA
GGCAGCAGACACGCCCTCTTAGTAGGGACTTAATGGGCCGGTCGGGGAGGGGGAGGCGGGATGGGACACCCAACA
CTTTTTCATTTCTTCAGAGGGAAACTCAGATGTCCAACTAATTTTAAACAAACGCATTAAGAGGTTTATTTGGG
TACATGGCCCGCAGTGGCTTTTGCCCCAGAAAGGGGAAAGGAACACGCGGGTAGATGATTTCTAGCAGGCAGGAA
GTCCTGTGCGGTGTCACCATGAGCACTCAGCTGTACTAGTGCCATTGGAATAATAAATTTGATAAGGTGTGAAAA

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FIGURE 5179

MVNFTVDQIRAIMDKKANIRNMSVIAHVDHGKSTLTDSLVCAGIIASARAGETRFTDTRKDEQERCITIKSTAI
SLFYELSENDLNF IKQSKDGAGFLINLIDSPGHVDFSSEVTAALRVTDGALVVDCVSGVCVQTETVLRQAI AER
IKPVLMMNKMDRALLELQLEPEELYQTFQRIVENVNVIISTYGEGESGPMGNIMIDPVLGTVGFGSGLHGWAFTL
KQFAEMYVAKFAAKGEGQLGPAERAKKVEDMMKKLWGDYRFPANGKFSKSATSPEGKKLPRTFCQLILDPIFKV
FDAIMNFKKEETAKLIEKLDIKLDSKDKKEGKPLLKAVMRRWLPAGDALLQMITIHLPSPVTAQKYRCELLYEG
PPDDEAAMGIKSCDPKGPLMMYISKMVPTSDKGRFYAFGRVFSGLVSTGLKVRIMGPNYTPGKKEDLYLKPIQRT
ILMMGRYVEPIEDVPCGNIVGLVGVDQFLVKTGTITTFEHAHNMRVMKFSVSPVVRVAVEAKNPADLPKLVEGLK
RLAKSDPMVQCIIEESGEHIIAGAGELHLEICLKDLEEDHACIPIKKSDPVVSYRET VSEESNVLCLSKSPNKH
RLYMKARFPDGLAEDIDKGEVSARQELKQRARYLAEKYEWDAEARKIWCFGPDGTGNILTDITKGVQYLNEI
KDSVVAGFQWATKEGALCEENMRGVRFVDVHDVTLHADAIHRGGQIIPTARRCLYASVLTAQPRLMETIYLVEIQ
CPEQVVGGIYGV LNRKRGHVFEE SQVAGTPMFVVKAYLPVNESFGFTADLRNTGGQAF PQCVFDHWQILPGDPF
DNSSRPSQVVAETRKRKGLKEGIPALDNFLDKL

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FIGURE 5180

CCCCTGCCTCTCGGACTCGGGCTGCGGCGTCAGCCTTCTTCGGGGCTCGGCAGCGGTAGCGGCTCGCTCGCCTCA
GCCCCAGCGCCCCCTCGGCTACCCCTCGGCCCAGGCCCGCAGCGCCGCCCGCCCTCGGCCGCCCCGACGCCGGCCTG
GGCCGCGGCCGCGAGCCCCGGGCTCGCGTAGGCGCCGACCGCTCCCGGCCCGCCCCCTATGGGCCCCGGCTAGAGG
CGCCGCCGCCGCCGGGCCGCGGAGCCCCGATGCTGGCCCGGAGGAAGCCGGTGCTGCCGGCGCTACCCATCAACC
CTACCATCGCCGAGGGCCCCATCCCCCTACCAGCGAGGGCGCCTCCGAGGCAAACCTGGTGACCTGCAGAAGAAGC
TGGAGGAGCTGGAACCTTGACGAGCAGCAGAAGAAGCGGCTGGAAGCCTTTCTCACCCAGAAAGCCAAGGTCGGCG
AACTCAAAGACGATGACTTCGAAAGGATCTCAGAGCTGGGCGCGGGCAACGGCGGGGTGGTCACCAAAGTCCAGC
ACAGACCCCTCGGGCCTCATCATGGCCAGGAAGCTGATCCACCTTGAGATCAAGCCGGCCATCCGGAACCAGATCA
TCCGCGAGCTGCAGGTCCTGCACGAATGCAACTCGCCGTACATCGTGGGCTTCTACGGGGCCTTCTACAGTGACG
GGGAGATCAGCATTTGCATGGAACACATGGACGGCGGCTCCCTGGACCAGGTGCTGAAAGAGGCCAAGAGGATTC
CCGAGGAGATCCTGGGGAAAGTCAGCATCGCGGTTCTCCGGGGCTTGGCGTACCTCCGAGAGAAGCACCAGATCA
TGCACCGAGATGTGAAGCCCTCCAACATCCTCGTGAACCTCTAGAGGGGAGATCAAGCTGTGTGACTTCGGGGTGA
GCGGCCAGCTCATCGACTCCATGGCCAACTCCTTCGTGGGCACGCGCTCCTACATGGCTCCGGAGCGGTTGCAGG
GCACACATTACTCGGTGCAGTCGGACATCTGGAGCATGGGCCTGTCCCTGGTGGAGCTGGCCGTCCGGAAGGTACC
CCATCCCCCGCCCCGACGCCAAAGAGCTGGAGGCCATCTTTGGCCGGCCCGTGGTTCGACGGGGAAGAAGGAGAGC
CTCACAGCATCTCGCCTCGGCCGAGGCCCCCCGGGCGCCCCGTACGCGGTCACGGGATGGATAGCCGGCCTGCCA
TGGCCATCTTTGAACTCCTGGACTATATTGTGAACGAGCCACCTCCTAAGCTGCCCAACGGTGTGTTCACCCCCG
ACTTCCAGGAGTTTGTCAATAAATGCCTCATCAAGAACCCAGCGGAGCGGGCGGACCTGAAGATGCTCACAAACC
ACACCTTCATCAAGCGGTCCGAGGTGGAAGAAGTGGATTTTGCCGGCTGGTTGTGTAAAACCTGCGGTGAACCAG
CCCGGCACACCCACGCGCACCGCCGTGTGACAGTGGCCGGGCTCCCTCGGTCCCGCTGGTGACCTGCCCACCGTC
CCTGTCCATGCCCCGCCCTTCCAGCTGAGGACCGTGGCGCCTCCACCCACCCTCCTGCCTCACCTGCGGAGAGC
ACCGTGGCGGGGCGACAGCGCATGCAGGAACGGGGGTCTCCTCTCCTGCCGTCCTGGCCGGGGTGCCCTCTGGGGA
CGGGCGACGCTGCTGTGTGTGGTCTCAGAGGCTCTGCTTCCTTAGGTTACAAAACAAAACAGGGAGAGAAAAAGC

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FIGURE 5181

GCTTCCGGCGGAAGCGGCCTCAACAAGGGAACTTTATTGTTCCCGTGGGGCAGTCGAGGATGTCGGTGAATTAC
GCGGCGGGGCTGTGCGCGTACGCGGACAAGGGCAAGTGCGGCCTCCCGGAGATCTTCGACCCCCCGAGGAGCTG
GAGCGGAAGGTGTGGGAAGTGGCGAGGCTGGTCTGGCAGTCTTCCAGTGTGGTGTTCACACGGGTGCCGGCATC
AGCACTGCCTCTGGCATCCCCGACTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCC
AAGTTCGACACCACCTTTGAGAGCGCGCGGGCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGC
CTCCTCCGCTTCCCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCTTCCCCAGGGACAACTGGCA
GAGCTCCACGGGAACATGTTTGTGGAAGAATGTGCCAAGTGTAAGACGCAGTACGTCCGAGACACAGTCGTGGGC
ACCATGGGCCTGAAGGCCACGGGCCGGCTCTGCACCGTGGCTAAGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAG
CTGAGGGACACCATCCTAGACTGGGAGGACTCCCTGCCCCGACCGGGACCTGGCACTCGCCGATGAGGCCAGCAGG
AACGCCGACCTGTCCATCACGCTGGGTACATCGCTGCAGATCCGGCCCCAGCGGGAACCTGCCGCTGGCTACCAAG
CGCCGGGGAGGCCGCTGGTCATCGTCAACCTGCAGCCACCAAGCACGACCGCCATGCTGACCTCCGCATCCAT
GGCTACGTTGACGAGGTCATGACCCGGCTCATGGAGCACCTGGGGCTGGAGATCCCCGCCTGGGACGGCCCCCGT
GTGCTGGAGAGGGCGCTGCCACCCCTGCCCCGCCCCACCCCCAAGCTGGAGCCCCAAGGAGGAATCTCCCACC
CGGATCAACGGCTCTATCCCCGCCGGCCCCAAGCAGGAGCCCTGCGCCACGACACACGGCTCAGAGCCCCGCCAGC
CCCAAACGGGAGCGGCCACCAGCCCTGCCCCCACAGACCCCCAAAAGGGTGAAGGCCAAGGCGGTCCCCAGC
TGACCAGGGTGCTTGGGGAGGGTGGGGCTTTTTGTAGAACTGTGGATTCTTTTCTCTCGTGGTCTCACTTTGT
TACTTGTTTCTGTCCCCGGGAGCCTCAGGGCTCTGAGAGCTGTGCTCCAGGCCAGGGTTACACCTGCCCTCCGT
GGTCCCTCCCTGGGCTCCAGGGGCTCTGGTGCGGTTCCGGGAAGAAGCCACACCCAGAGGTGACAGCTGAGCC
CCTGCCACACCCAGCCTCTGACTTGCTGTGTTGTCCAGAGGTGAGGCTGGGCCCTCCCTGGTCTCCAGCTTAAA
CAGGAGTGAACCTCCCTCTGTCCCCAGGGCCTCCCTTCTGGGCCCCCTACAGCCACCCCTACCCCTCCTCCATGGG
CCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACTGCCTTTGGGGCTGGAGGGAGA
CGTGGGTCCACCAGGCTTCTGGAAAAGTCCTCAATGCAATAAAAACAATTTCTTTCTTGCAA

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FIGURE 5182

MSVNYAAGLSPYADKGKCGLP E I F D P P E E L E R K V W E L A R L V W Q S S S V V F H T G A G I S T A S G I P D F R G P H G V W T M E E
R G L A P K F D T T F E S A R P T Q T H M A L V Q L E R V G L L R F L V S Q N V D G L H V R S G F P R D K L A E L H G N M F V E E C A K C K T Q Y V R
D T V V G T M G L K A T G R L C T V A K A R G L R A C R G E L R D T I L D W E D S L P D R D L A L A D E A S R N A D L S I T L G T S L Q I R P S G N L
P L A T K R R G G R L V I V N L Q P T K H D R H A D L R I H G Y V D E V M T R L M E H L G L E I P A W D G P R V L E R A L P P L P R P P T P K L E P K
E E S P T R I N G S I P A G P K Q E P C A Q H N G S E P A S P K R E R P T S P A P H R P P K R V K A K A V P S

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FIGURE 5183

TCCATAACCTGCTGTGGCTCCCCATTGCCAGGCAGTGTAGAGTTCTGAATACCTTGTGCTGGAAGCTGAAGCCCT
TCCTGCCCCAGCCCTGAATCACCTCTCCAACCTTCAGCCCCCTCTGCTCCTGCTGCAGCCCCCAAACACTTGCA
TTTCTCCTAAACTCATGGGCTCTTCCCAGCACCCAGGCCTTTGTTTACCCCTTCTGTCTGATCTTCCCTCTCACC
CTTCAAGAAACTGCTTAGCCTCCTCCAGGAAGCCCTTCCACGTGCCCCAGGGCCCCCACCTCCACGGGGCTTCCC
CAGGCCCAGGTACCTCCTCTGATCCAGGCTTGACTCTTGGGGCCAGAGGATCTGTGTCCACCTGTCTCCCCAAG
ATCAAGGGCTTCTGGAGGGCAGGGCTTGGGCCCATGTGAGCATCGTCAGGCTCATTGCAGCAGCAGTGTGGTTG
AATAGAATAAGTCATTTTTGCCTTCGTGTGAATTCATCTCTCTCTCTGCTCTCCCTCTCTCTGTCTCTCTCC
AATTCTGCTCTGACTTGCTTTGTCTTTAACTCTTTATCTCTCTGTCTGTCTTGTCTATCCCCCTCTCCCTG
TTCTTGCAACTCACCTCTATTTCTGTTTCTGATTCCCTCTCTCTGTCTCCCTGTCTCTCTGTCTCTCTGATTT
TCTCTCTCTCCAACCTTCTCTCTATACCTCTCTGATTCTCCCTCTGTCTCTTTTTCTGTTCCCTCTCCCCGTCC
ATCTCTCCCGGCTGCCACCTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCCAAGT
TCGACACCACCTTTGAGAGCGCGCGGCCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGCCTCC
TCCGCTTCTGCTGAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCCTCCCTTCTGGGCCCCCTACAGCCC
ACCCTACCCCTCCTCCATGGGCCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACT
GCCTTTGGGGCTGGAGGGAGACGTGGGTCCACCAGGCTTCTGGAAAAGTCCTCAATGCAATAAAAAACAATTTCTT
TCTTGC

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FIGURE 5184

CAAAAGGACAGATGCAGAGGACAGGCGCCAGGCACAGATACCATCTCCCTTCCCCAAGCCAGCTGCCCCCAACCC
TCCCCCTGCCCCGAATTAGTCCTCTGGGGCGGGAGCGGGGCACAGAGCAGAGCCCTCTTGGGGGAGGGGAAGCCC
GATCCGCAACCCACCCTTCCTTTGCCCCCTCTTCCTTCTGCTGCTCCAATATCAATTTACAGCCAGTGACCTCTCC
ACCAATTTGCACATCCCCACTCTCCCGGTCCGTTTACCGCCAGACATCGGTTCCATTTTCGACCCTCACTGGCGG
TCATTCCCAACCCCTCTGCTGGTCAATTTACCCCTTTTGGCGGTCAAGTGCAGTCCCCCATTTCCCGGGCAATT
TCCCCCTCCCCCTCCTTCTCCCTCTCCCTTCCCTTCCCAAGCAGTGTCACTCCAGCTGCTCCCCACCTCCCGCGC
TCCGCGCTCGCTGCGGCCAGTCTCGGGCGTCCCGGTCAGTGTCCAGCTGCGCGGCCCTCGGCCCGGCGACTCCC
GCCCCAGCCCCCTTCCCTCCGCGGGCAGCGGCTCCCTCCCTCCCAAGACAGCTGAAGGTCTCAGTCACCTCC
GAGGGGAGCGCAGGGGGAGGGGAGGGGACGCGCGGAGGGGAGGTGGGGGAGCCTTGACGCTGCTGCC
GGGACGCGGGCCGGGGCTGGTGGAACAGGGGCGTCTCTGCGCGCCCCCTCCCCAGCGTCCACCTCCCGGC
GGCGGCGGGGAAAGTCTCTCCGAAAGCGTGAAGGGGGATTGGAGGAGGTTTTTATTTCCCTTTGTGCGGGTGGCT
GGGGCCGGATCGAGGCGGGGGGCGCGGACTGGGGGCTCCCCGCTGAGCCGAGAGGAGCGCGACAAAGGATG
CGTCCCGCGGGGTACAGTCTCCGCGGCCCACTTTGCGCGCGCGCCGCGCCCCCTGGGGAGCCCGCCCGCTG
CGCTGAGAACCCAGGCGTCCGGGCTGGGAGAGGGGCGGGAGCGTCCGAGGTGGCGCTGGCCCCGATCTCCCGA
CCCCAGGAAGGGATCCCGGAGCTTCTTGAGGCGGCGGGCGGCGGTGTCTGCTCCAGGGAACCGCGCTGCCCGCGG
AAACTCCGCGCGCTCCGCGGATGCCCCCTCGCCCTAGCCCCAGCGCGGGGTTTGGGGCCCTGCGAGGTCCCC
CCTTCCCCCGCGGTGCTTCCCAAGCTGGGCTAAGGCGGGCTTCTCTTCCCTCCCTCTGTGCGCTCCTTTTCTCT
CCCCCTCGTTACCTTTTCTTCCCTCTATCCATCCAGAGCCCCGCCAAAGGGCGCACCTGATCTTTCTCATCCT
TCCCTGCTCTTCCCTTCTCTCCACCTCCTCCTCCTTGGGGAAGGGGCCCCGGAGAAGGGCATGTGGGGGCC
CCTCTGACAGTGGCCGATTGGGGTGACAGGCGCCCAATGGCCAAGTGGCTACGGGACTACCTGAGCTTTGGGG
GTGCGAGGCCCCCTCCGAGCCGCCCCACCCGGACTACACCGAGAGCGACATCCTGAGGGCCTACCGCGCGCAGA
AGAACCTGGACTTCGAGGACCCCTATGAGGACGCGGAGAGCCGCTTGAGAGCCGGACCCCGCGGGCCCTGGGGACT
CCAAGAACCCCGGAGATGCCAAGTATGGTTCTCCCAAGCACCGGCTCATCAAGGTGGAGGCTGCGGATATGGCCA
GAGCCAAGGCCCTTCTGGGCGGCCCCGGGGAGGAGCTGGAAGCCGACACTGAGTATTTAGACCCCTTTGATGCTC
AGCCTCATCCTGCACCCCGGATGATGGGTACATGGAGCCCTACGATGCCCAATGGGTGATGAGTGAACCTCCCG
GCAGAGGGGTGCAGCTCTATGACACCCCTTATGAGGAACAGGACCCAGAGACAGCAGATGGACCCCTTCTGGGC
AGAAGCCTCGGCAGAGCCGGATGCCCCAGGAAGATGAACGGCCAGCAGATGAGTATGATCAGCCCTGGGAGTGGA
AGAAAGACCACATCTCCAGGGCGTTTGCAGTGCAGTTTGACAGTCCAGAGTGGGAGAGGACTCCAGGCTCAGCCA
AGGAGCTCCGGAGACCTCCGCCCAGAACGCCCCAGCCTGCGGAGCGTGTGGACCCAGCCCTGCCCTGGAGAAAC
AGCCGTGGTTTTATGGCCCCCTGAACAGGGCGGATGCAGAGAGCCTCCTGTCCCTCTGCAAGGAAGGCAGCTACC
TAGTGCGGCTCAGTGAGACCAACCCCAAGGACTGCTCCTTGTCTCTCAGGAGCAGCCAGGGCTTCTGCACTGA
AGTTGCGCGGACCCGTGAGAACCAGGTGGTGCTGGGCCAACACAGCGGGCCCTTCCCCAGCGTGCCCGAGCTCG
TCCTCCACTACAGTTACGCCCCACTGCCGTTGCAGGGTGCCGAGCATCTGGCTCTGCTGTACCCCGTGGTCACGC
AGACCCCCTGACAGTGACCCTCGGCCCCCTTTTGAGTCCTCGGGCCAGAATCGTATCCCAAAGCCCTCCCATGG
CCTAGAAAATAAATAAGTTATTGTT

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FIGURE 5185

MAKWLRDYLSTFGGRRPPPQPPTPDYTESDILRAYRAQKNLDFEDPYEDAESRLEPDPAGPGDSKNPGDAKYGSPK
HRLIKVEAADMARAKALLGGPGEELEADTEYLDPFDAQPHAPPPDDGYMEPYDAQWVMSELPGRGVQLYDTPYEE
QDPETADGPPSGQKPRQSRMPQEDERPADEYDQPWEWKDTHISRAFAVQFDSPEWERTPGSAKELRRPPRSPQP
AERVDPALPLEKQPWFHGPLNRADAESLLSLCKEGSYLVRLSETNPQDCSLSLRSSQGFLHLKFARTRENQVVLG
QHSGFFPSVPELVLYSSRPLPVQGAEHLALLYPVVTQTP

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FIGURE 5186

ACCCAGCGTGCGCGGGGCCCGCGGGCCGGGGCCGGGGTGACCTGGGCTGCAGCCATGGAAGAACAGAGGGAGGCCC
TGAGGAAGATCATCAAAACACTGGCTGTGAAGAATGAAGAAATTCAGAGCTTTATCTACTCCCTGAAACAGATGC
TGCTGAACGTGGAGGCCAACTCGGCGAAGGTGCAGGAGGACCTCGAAGCAGAGTTCCAGTCCCTCTTCTCCCTCC
TGGAGGAGCTGAAAGAAGGCATGCTTATGAAGATAAAACAGGACCGTGCCAGCCGCACCTACGAGCTGCAGAACC
AGCTGGCTGCCTGCACGCGGGCCCTGGAGAGCTCCGAGGAGCTTCTGGAGACAGCCAACCAGACTCTGCAGGCCA
TGGACAGCGAGGACTTTCCTCAGGCTGCCAAGCAAATCAAAGATGGAGTGACCATGGCCCTGCCTTCCGGCTAT
CATTGAAAGCGAAGGTCAAGTACATGAGTCACTCATGGTGGACTTCGCGCAAGAGCGGCAGATGCTACAGG
CACTCAAGTTCCCTGCCTGTGCCCAGCGCACCCGTGATCGACCTGGCTGAGTCCCTGGTGGCAGATAACTGTGTGA
CCCTGGTGTGGCGCATGCCGGATGAGGACAGCAAGATTGACCACTACGTGCTGGAGTACCGGCGGACCAACTTCG
AGGGCCCCGCCCCGCCTCAAGGAGGACCAGCCCTGGATGGTTCATCGAGGGCATCCGGCAGACAGAGTACACCCTGA
CAGGTCTCAAGTTTGACATGAAATACATGAACTTCCGTGTGAAGGCCTGTAACAAGGCAGTTGCAGGAGAGTTCT
CTGAGCCGGTGACTCTGGAGACACCAGCGTTTCATGTTCCGCCTGGATGCGTCCACATCCCACCAGAACCTGCGGG
TGGATGATCTCTCCGTGGAGTGGGACGCTATGGGCGGGAAGGTGCAGGATATCAAGGCTCGCGAGAAAGATGGCA
AGGGGCGGACGGCGTCTCCCATCAACTCCCCAGCCAGAGGTACTCCATCTCCCAAGAGGATGCCCTCAGGTCTGTG
GGGGACGGGACCGCTTCACCGCTGAGTCTTACACAGTTCTGGGGGACACGCTGATCGACGGCGGGGAGCATTACT
GGGAGGTGCGCTACGAGCCGGACAGCAAGGCGTTCGGCGTGGGCGTGGCCTACCGCAGCCTGGGCCGCTTCGAGC
AACTGGGCAAGACGGCCGCCTCCTGGTGCCTGCACGTCAACAATTGGCTGCAGGTCAAGTTCACGGCCAAGCACG
CCAACAAGGTCAAGGTGCTGGACGCCCCGTGCCCCGACTGCCTGGGTGTGCACTGTGACTTCCACCAAGGCCTCC
TGTCTTCTACAATGCCCGCACCAACAAGTGCTGCACACTTTCAAGACCAGGTTACACAGCCGCTGCTGCCTG
CTTTCACGGTATGGTGTGGCAGCTTCCAGGTGACGACAGGCCTGCAGGTCCCCAGTGCTGTGCGCTGCCTGCAAA
AGCGAGGCAGTGCTACCAGCAGCTCCAACACCAGCCTCACCTAGGCCCCCAGGCACCCACCCAGCTGGGGTGTTT
TTGGGGGAGTCGCCGCCAAGCCCAGGCTGCTGGAGCCAGGCACCCCTCCTCTGTCACTTGCTGCTTGGAGCCTTAA
CTCCAGATGGGGGGGTACCAAGAGGGAGTGGGCACCCCTGGCGGGCCCTCTCCCCACCTCACCTCTTAATAAAGG
TCAGACACTGGCCAGGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5187

MEEQREALRKIIKTLAVKNEEQSFIIYSLKQMLLNVEANSKVVQEDLEAEFQSLFSLLEELKEGMLMKIKQDRAS
RTYELQNQLAACTRALESSEELLETANQTLQAMDEDFPQAAKQIKDGVMTAPAFRLSLKAKVSDNMSHLMVDFA
QERQMLQALKFLPVPSAPVIDLAESLVADNCVTLVWRMPDEDSKIDHYVLEYRRTNFEGPPRLKEDQPWMVIEGI
RQTEYTLTGLKFDKMYMNFVRVKACNKAVAGEFSEPVILETPAFMFRLDASTSHQNLRVDDLSVEWDAMGGKVQDI
KAREKDGKGRITASPINSPARGTPSPKRMPSGRGGRDRFTAESYTVLGDTLIDGGEHYWEVRYEPDSKAFGVGVAY
RSLGRFEQLGKTAASWCLHVNNWLQVSFTAKHANKVKVLDAPVPDCLGVHCDHFHQGLLSFYNARTKQVLHTFKTR
FTQPLLPAFTVWCGSFQVTTGLQVPSAVRCLQKRGSAATSSSNTSLT

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FIGURE 5188

GCGGCGGGCGGCAGC**ATGT**CGGTGGCGGGGCTGAAGAAGCAGTTCTACAAGGCGAGCCAGCTGGTCAGTGAGAAG
GTCGGAGGGGGCCGAGGGGACCAAGCTGGATGATGACTTCAAAGAGATGGAGAAGAAGGTGGATGTCACCAGCAAG
GCGGTGACAGAAGTGCTGGCCAGGACCATCGAGTACCTGCAGCCCCAACCCAGCCTCGCGGGGCTAAGCTGACCATG
CTCAACACGGTGTCCAAGATCCGGGGCCAGGTGAAGAACCCCGGCTACCCGCAGTCGGAGGGGCTTCTGGGCGAG
TGCATGATCCGCCACGGGAAGGAGCTGGGCGGCGAGTCCAACCTTTGGTGACGCATTGCTGGATGCCGGCGAGTCC
ATGAAGCGCCTGGCAGAGGTGAAGGACTCCCTGGACATCGAGGTCAAGCAGAACTTCATTGACCCCTCCAGAAC
CTGTGCGAGAAAGACCTGAAGGAGATCCAGCACCACTGAAGAACTGGAGGGCCGCGCCTGGACTTTGACTAC
AAGAAGAAGCGGCAGGGCAAGATCCCCGATGAGGAGCTACGCCAGGCGCTGGAGAAGTTCGAGGAGTCCAAGGAG
GTGGCAGAAACCAGCATGCACAACCTCCTGGAGACTGACATCGAGCAGGTGAGTCAGCTCTCGGCCCTGGTGGAT
GCACAGCTGGACTACCACCGGCAGGCCGTGCAGATCCTGGACGAGCTGGCGGAGAAGCTCAAGCGCAGGATGCCG
GAAGCTTCCTCAGCCCTAAGCGGGAGTATAAGCCCAAGCCCCGGGAGCCCTTTGACCTTGAGAGCCTGAGCAG
TCCAACGGGGGCTTCCCCTGACACAGCCCCAAGATCGCAGCTTCATCGTCTTTCCGATCTTCCGACAAGCCC
ATCCGGACCCCTAGCCGGAGCATGCCGCCCTGGACCAGCCGAGCTGCAAGGCGCTGTACGACTTCGAGCCCGAG
AACGACGGGGAGCTGGGCTTCCATGAGGGCGACGTACACGCTGACCAACCAGATCGATGAGAACTGGTACGAG
GGCATGCTGGACGGCCAGTCGGGCTTCTTCCCGCTCAGCTACGTGGAGGTGCTTGTGCCCCCTGCCGCAG**TGACTC**
ACCCG**T**GTCGCCCGCCCCGCCCCCTCCGTCCACACTGGCCGGCACCCCTGCTGGGTCTCCTGCATTCCACGGAGCC
CCTGCTGCCAGGGCGGTGTCTGAGCCTGCCGGCGCCACCTGGGCCCGGCCCTTGAGGTACTCCCTGAGCAGGAC
CCCACACTTGGGTGGGGGGGCTTATCTGGGTGGGTGGGGATGCCGTGTTTACACTAGCGCTGACTCCCAACGGTGA
CGGCTCCCTTCCCCACTCCATGGCGCCAGCCTCCTCCCCCGCTCCCCAACCTTCTCGCCAGCTGGCCGAGGCGGG
GCAACACTAAGGTGCTCTTAGAAACACTAATGTTCTCTGGGGCAGCCCCACCTCCGTCTTGACCCGACGGGGG
CCCGGCCCACTGCCTACCCTCGAGTCCCGCAGCCTTAACAGGATGGGATCGAGGGTCCCCATGGGGTGGCTCAGA
GATAGGACCCCTGGTTTTTAAATCCCTCCCAGCCTGGTGCTGGTGATGGGCCCTGGCCCTACTCCAGGGCCAATGCA
CCCCCGCTCACACACGCACTCCTTCTCCTCAAGGCCAGGGCAGAGGGCCTCACCGCCTCCCGGGCCTGCTGTCA
GCTTGACAGCCCGGGACAGAGGCCAGCTGGGATCTGCCTGAGGACAGAGAACATGGTCTCCTGCAGGGCCCTGCC
TCCCAAGCCCCGCCCTCAGAAAGCCAAGTACCTTTTTAGCTTTTTTAAGTCCCCCATCCCAACCCAGGGAGGCCT
GTGTCACTCTGGCACAAGCTGCCACCACCAGCCACCCACACCCACCCAGCACACCTCACACGGGACCACAGCCG
CGCTGCCGAGGGCCAAGCACAAAGGTTCCAGTGAGCGCATGTCCAGCCCTGGTGGCCAGGCTCCCCTTGCTGAG
CCGCTGCCACTTCACCCTGTGGGAAGTGGCCCCAGCCATCTCCTCTAGACCAAGGCAGGCAGCCCCGACATCTGC
TTCTCTATCGCCCAATGCAAAATCGATGAAATGGGGAGTTCTCTGGGCCAGGCCACATTACATTCCCCTCCCT
CTGTGGTCCAGTGAAGCTCCGGACCCAGGCTCTGCTCTGCCCTGCCCTGCACCCCTCGTCAGAAGTACATGA
GGGGCGCAGAGATGAGCACACAGCTTTGGGCACGGTCCAGGGCAAAGTGAATGTACGCCTGAATTTTGTAACA
GAAGTATTAAATGTCTCTTTCTAC

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FIGURE 5189

MSVAGLKKQFYKASQLVSEKVGGAEGTKLDDDFKEMEKKVDVTSKAVTEVLARTIEYLQPNPASRAKLTMINTVS
KIRGQVKNPQYPQSEGLLGECMIRHGKELGGESNFGDALLDAGESMKRLAEVKDSL DIEVKQNFIDPLQNLCEKD
LKEIQHHLKKLEGRRLDFDYKKKRQKIPDEELRQALEKFEESSKEVAETSMHNLLET DIEQVSQLSALVDAQLDY
HRQAVQILDELAEKLKRRMREASSRPKREYKPKPREPFDLGEPEQSNGGFPCTTAPKIAASSSFRSSDKPIRTPS
RSMPPLDQPSCALYDFEPENDGELGFHEGDVITLTNQIDENWYEGMLDGQSGFFPLSYVEVLVPLPQ

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FIGURE 5190

TTTTCTTCCGGGGGCTGGTCTCCGGCGGGCCCCGTCCCCGACTGGGCCCCGTGCCCCCCCCGCCCCGCGGCCCCC
GCCCCCGGGCCAGCCGCCACCAATGAAGAAATTCTTTTCAGGAGTTCAAGGCCGACATCAAGTTCAAGAGCGCGGGA
CCCCGGTCAGAAGCTCAAAGAGTCCGTGGGGGAAAAGGCCACAAAGAGAAGCCCAACCAGCCAGCCCCCAGGCCG
CCCCGCCAGGGACCCACCAATGAGGCACAGATGGCAGCCGCTGCTGCCCTAGCCCGGTGGAGCAGAAGCAGTCC
CGGGCCTGGGGCCCCACATCGCAGGACACCATCCGAAACCAGGTGAGAAAGGAACTTCAAGCCGAAGCCACCGTC
AGCGGGAGCCCCGAGGCCCCAGGGACCAACGTGGTATCTGAGCCCAGAGAGGAAGGCTCTGCCCCACCTGGCTGTG
CCTGGCGTGTAATTACCTGTCCGCTCACTGGGGCCACCCTGAGGAAGGACCAGCGGGACGCTGCATCAAGGAG
GCCATTCTCTTGCACTTCTCCACCGACCCAGTGGCCGCCTCCATCATGAAGATCTACACGTTCAACAAAGACCAG
GACCGGGTGAAGCTGGGTGTGGACACCATTGCCAAGTACCTGGACAACATCCACCTGCACCCCGAGGAGGAGAAG
TACCGGAAGATCAAGCTGCAGAACAAGGTGTTTCAGGAGCGCATTAAGTGCCTGGAAGGGACCCACGAGTTTTTT
GAGGCCATTGGGTTCAGAAAGGTGTTGCTTCCCGCCCAGGATCAGGAGGACCCCGAGGAGTTCTACGTGCTGAGC
GAGACCACCTTGCCCCAGCCCCAGAGCCTGGAGAGGCACAAGGAACAGCTGCTGGCTGCGGAGCCCGTGCGCGCC
AAGCTGGACAGGCAGCGCCGCTCTTCCAGCCCTCGCCCCTGGCCTCGCAGTTTGAAGTGCCTGGGGACTTCTTC
AACCTCACAGCAGAGGAGATCAAGCGGGAGCAGAGGCTCAGGTCCGAGGCGGTGGAGCGGCTGAGCGTGCTGCGG
ACCAAGGCCATGCGGGAGAAGGAGGAGCAGCGGGGGCTGCGCAAGTACAACCTACACGCTGCTGCGCGTGCGCCTC
CCCGATGGCTGCCTCCTGCAGGGCACTTTCTACGCTCGGGAGCGGCTGGGGGCGGTGTACGGGTTCGTCCGGGAG
GCCCTGCAGAGCGACTGGCTGCCTTTTGAGCTGCTGGCCTCGGGAGGGCAGAAGCTGTCCGAGGACGAGAACCTG
GCCTTGAACGAGTGCGGGCTGGTGCCCTCTGCCCTCCTGACCTTCTCGTGGGACATGGCTGTGCTGGAGGACATC
AAGGCCGCGGGGGCCGAGCCGACTCCATCCTGAAACCCGAGCTCCTGTGAGCCATCGAGAAGCTCTTGTGAAAT
AAAAGCAGGGTTGGCCTCAGCCCTGTGGGTCTGTCTCATGCTCTCCCTGTTTCTCTCCCCGCCACCCAGGGCCT
CCAAGCCACCTCTGGAAATACTTGGCTCTGCCCCATGGGCACGGGAGGGGCGCCAGCCGTGGAGCTGTGGAAATTG
GGCCCCGTGGCAGAGCCCCCATCCCTTGGGGGCTGTGGGGATGCGCCCAAGCCCCCGAGGGAGAGGCTGGGGAC
ACCAAC

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FIGURE 5191

MKKFFQEFKADIKFKSAGPGQKLKESVGEKAHKEKPNQPAPRPPRQGPTNEAQMAAAAALARLEQKQSRWGPST
QDTIRNQVRKELQAEATVSGSPEAPGTNVVSEPREEGSAHLAVPGVYFTCPLTGATLRKDQORDACIKEAILLHFS
TDPVAASIMKIYTFNKDQDRVKLGVDTIAKYLDNIHLHPEEEKYRKIKLQNKVFQERINCLEGTHEFFEAIGFQK
VLLPAQDQEDPEEFYVLSETTLAQPSLERHKEQLLAAEPVRAKLDRQRRVFQPSPLASQFELPGDFFNLTAEEI
KREQRLRSEAVERLSVLR TKAMREKEEQRGLRKYNITLLRVRLPDGCLLQGTIFYARERLGAVYGFVREALQSDWL
PFELLASGGQKLSEDENLALNECGLVPSALLTFSWDMVLEDIKAAGAEPDSILKPELLSAIEKLL

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FIGURE 5192

GTCTACCCGCCCCCTGCCCTGAGGACCCTAGTCCAACATGGCGGCGCCCAGCGGAGGGTGGAACGGCGTCGGCGCG
AGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCCACGACGGTG
GCGTTTGACGTGCGGCCCGGCGGCGTCGTGCATTCTTCTCCATAACGTGGGCCCGGGGACAAATATACGTGT
ATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAAGACCACCAG
CACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCCTATCTGTACTTCACACAGTTCAAGGCAGAGGTGCGG
GGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAGTGATGTCCCTCTGAAAAC
GAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCCAAGCTGGTG
ATTGTGGCCAAGGCATCGCGCACTGAGCTGTGACCAGCAGCCCTGTTGCGGGTGGCACCTTCTCATCTCCGGTGA
AGCTGAAGGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCCACTTCCTGCTGAGCTCTTCTGGACTCAGGATC
GCAGATCCGGGGCACAAAGAGGGTGGGGAACATGGGGGCTATGCTGGGGAAAGCAGCCATGCTCCCCCGACCTC
CAGCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTTCTATGTTTACCCAGGGGACCTCCTTTCAGATGAACTG
GGAAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGC

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FIGURE 5193

MAAPSGGWNGVGASLWAALLLGAVALRPAEAVSEPTTVAFDVRPGGVVHSF SHNVGPGDKYTCMFTYASQGGTNE
QWQMSLGTSEDHQHFTCTIWRPQGKSYLYFTQFKAEVGAIEIYAMAYSKAAFERESDVPLKTEEFVTKTAVAH
RPGAFKAELSKLVIVAKASRTEL

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FIGURE 5194A

AAGGTGCCTGAGCCGGCGGGTCCCCTGTGTCCGCCGCGGCTGTGCTCCCCGCTCCCGCCACTTCCGGGGTTCGCA
GTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCCGGGACGACCTGCCCAGTCCGGCCGCCGCCCCAC
GTCCCGGTCTGTGTCCACGCCTGCAGCTGGAATGGAGGCTCTCTGGACCCCTTTAGAAGGCACCCCTGCCCTCCT
GAGGTCAGCTGAGCGGTTAATGCGGAAGGTTAAGAACTGCGCCTGGACAAGGAGAACACCGGAAGTTGGAGAAG
CTTCTCGCTGAATTCGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGCCGACCGAGGCGACGCAGC
CGCCACAGATGACCCGGCGCCCGCTTCCAGGTGCAGAAGCACTCGTGGGACGGGCTCCGGAGCATCATCCACGG
CAGCCGCAAGTACTCGGGCCTCATTGTCAACAAGGCGCCCCACGACTTCCAGTTTGTGCAGAAGACGGATGAGTC
TGGGCCCCACTCCCACGCTCTACTACCTGGGAATGCCATATGGCAGCCGAGAGAACTCCCTCCTCTACTCTGA
GATTCCCAAGAAGGTCCGGAAGAGGCTCTGCTGCTCCTGTCTGGAAGCAGATGCTGGATCATTTCAGGCCAC
GCCCCACCATGGGGTCTACTCTCGGGAGGAGGAGCTGCTGAGGGAGCGGAAACGCTGGGGGTCTTCGGCATCAC
CTCCTACGACTTCCACAGCGAGAGTGGCCTCTTCTCTTCCAGGCCAGCAACAGCCTCTTCCACTGCCGCGACGG
CGGCAAGAACGGCTTCATGGTGTCCCTATGAACCGCTGGAAATCAAGACCCAGTGCTCAGGGCCCCGGATGGA
CCCCAAAATCTGCCCTGCCGACCTGCTTCTTCTCCTTCATCAATAACAGCGACCTGTGGGTGGCCAACATCGA
GACAGGCGAGGAGCGGCGGCTGACCTTCTGCCACCAAGGTTTATCCAATGTCTGGATGACCCCAAGTCTGCGGG
TGTGGCCACCTTCGTATACAGGAAGAGTTCGACCGCTTCACTGGGTACTGGTGGTGGCCACAGCCTCCTGGGA
AGGTTTCAGAGGGCCTCAAGACGCTGCGAATCCTGTATGAGGAAGTCGATGAGTCCGAGGTGGAGGTCATTACGT
CCCCCTCTCTGCGCTAGAAGAAAGGAAGACGGACTCGTATCGGTACCCAGGACAGGCAGCAAGAATCCCAAGAT
TGCTTGAACTGGCTGAGTTCAGACTGACAGCCAGGGCAAGATCGTCTCGACCCAGGAGAAGGAGCTGGTGCA
GCCCTTCAGCTCGCTGTTCGGAAGGTGGAGTACATCGCCAGGGCCGGGTGGACCCGGGATGGCAAATACGCTG
GGCCATGTCTCTGGACCGGCCCCAGCAGTGGCTCCAGCTCGTCTCTCTCCCCCGGCCCTGTTCATCCCAGCAC
AGAGAATGAGGAGCAGCGGCTAGCCTCTGCCAGAGCTGTCCCCAGGAATGTCCAGCCGTATGTGGTGTACGAGGA
GGTCACCAACGTCTGGATCAATGTTTCATGACATCTTCTATCCCTTCCCCCAATCAGAGGGAGAGGACGAGCTCTG
CTTCTCCGCGCAATGAATGCAAGACCGGCTTCTGCCATTTGTACAAAGTCACCGCCGTTTAAATCCCAGGG
CTACGATTGGAGTGAGCCCTTCAGCCCCGGGGAAGATGAATTTAAGTGCCCCATTAAGGAAGAGATTGCTCTGAC
CAGCGGTGAATGGGAGGTTTGGCGAGGCACGGCTCCAAGATCTGGGTCAATGAGGAGACCAAGCTGGTGTACTT
CCAGGGCACCAAGGACACGCGCTGGAGCACACCTCTACGTGGTCAGCTATGAGGCGGCCGGCGAGATCGTACG
CCTCACACGCCCCGGCTTCTCCCATAGCTGCTCCATGAGCCAGAACTTCGACATGTTTCGTACGCCACTACAGCAG
CGTGAGCACGCGCCCTGCGTGCACGTCTACAAGCTGAGCGGCCCCGACGACGACCCCTGCACAAGCAGCCCCG
CTTCTGGGCTAGCATGATGGAGGCAGCCAGCTGCCCCCGGATTATGTTTCTCCAGAGATCTTCCATTTCCACAC
GCGCTCGGATGTGCGGCTCTACGGCATGATCTACAAGCCCCACGCTTGCAGCCAGGGAAGAAGCACCCACCGT
CCTCTTTGTATATGGAGGCCCCCAGGTGCAGCTGGTGAATAACTCCTTCAAAGGCATCAAGTACTTGC GGCTCAA
CACACTGGCCTCCCTGGGCTACGCCGTGGTTGTGATTGACGGCAGGGGCTCCTGTGAGCGAGGGCTTCGGTTTCA
AGGGGCCCTGAAAAACCAATGGGCCAGGTGGAGATCGAGGACCAGGTGGAGGGCCTGCAGTTCGTGGCCGAGAA
GTATGGCTTCATCGACCTGAGCCGAGTTGCCATCCATGGCTGGTCTACGGGGGCTTCTCTCGCTCATGGGGCT
AATCCACAAGCCCCAGGTGTTCAAGGTGGCCATCGCGGGTGCCCCGGTACCGTCTGGATGGCCTACGACACAGG
GTACACTGAGCGCTACATGGACGTCCCTGAGAACAACCAGCACGGCTATGAGGCGGGTTCCGTGGCCCTGCACGT
GGAGAAGCTGCCCAATGAGCCCAACCGCTTGCTTATCTCCACGGCTTCTTGACGAAAACGTGCACTTTTTCCA
CACAACTTCTCTGCTCTCCCACTGATCCGAGCAGGGAAACCTTACCAGCTCCAGATCTACCCCAACGAGAGACA
CAGTATTCTGCTGCCCCGAGTCGGGCGAGCACTATGAAGTCACGTTGCTGCACTTTCTACAGGAATACCTCTGAGC
CTGCCCCACGGGAGCCGCCACATCACAGCAAGTGGCTGCAGCCTCCGCGGGGAACCAGGCGGGAGGGACTGAG
TGGCCCGCGGGCCCCAGTGAGGCACTTTGTCCCGCCAGCGCTGGCCAGCCCCGAGGAGCCGCTGCCTTACCGC
CCCGACGCTTTTATCCTTTTAAACGCTCTTGGGTTTTATGTCCGCTGCTTCTTGGTTGCCGAGACAGAGAGA
TGGTGGTCTCGGGCCAGCCCCCTCTCTCCCCGCTTCTGGGAGGAGGAGGTACACGCTGATGGGCACTGGAGAG
GCCAGAAGAGACTCAGAGGAGCGGGCTGCCTTCCGCTGGGGCTCCCTGTGACCTCTCAGTCCCCTGGCCCGGCC
AGCCACCGTCCCCAGCACCCAAGCATGCAATTGCCTGTCCCCCGGCCAGCCTCCCCAACTTGATGTTTGTGTT
TTGTTTGGGGGATATTTTTCATAATTATTTAAAGACAGGCCGGGCGCGGTGGCTCACGTCTGTAATCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGATCACCTGAGGTTGGGAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCC
GTCTCTACTAAAAATACAAAAATTAGCCGGGTGTGGTGGCGCTGCCTATAATCCAGCTACTCGGGAGGCTGA

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FIGURE 5194B

GGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTGCGGTGAGCCAAGATCGCACCATTGCACTCCAGCCTGGG
CAACAAGAGCGAAACTCTGTCTCAAATAAATAAAAAATAAAAGACAGAAAGCAAGGGGTGCCTAAATCTAGACT
TGGGGTCCACACCGGGCAGCGGGGTTGCAACCCAGCACCTGGTAGGCTCCATTTCTTCCAAGCCCGAGCAGAGG
GTCATGCGGGCCCCACAGGAGAAGCGGCCAGGGCCCGCGGGGGGCACCACCTGTGGACAGCCCTCCTGTCCCCAA
GCTTTCAGGCAGGCACTGAAACGCACCGAACTTCCACGCTCTGCTGGTCAGTGGCGGCTGTCCCCCTCCCCAGCCC
AGCCGCCCAGCCACATGTGTCTGCCTGACCCGTACACACCAGGGGTTCCGGGGTTGGGAGCTGAACCATCCCCAC
CTCAGGGTTATATTTCCCTCTCCCCTTCCCTCCCCGCCAAGAGCTCTGCCAGGGGCGGGCAAAAAAAAAAAGTAA
AAGAAAAGAAAAAAAAAAAAAAAAA

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FIGURE 5195

TTCCAAGCTGGTTTTGAAGTCGCGGCAGCTGTTCTGGGACGTCCGGTTGACCGCGCGTCTGCTGCAGAGACCAT
GTCTGCCGACGGGGCAGAGGCTGATGGCAGCACCCAGGTGACAGTGGAAGAACCGGTACAGCAGCCCAGTGTGGT
GGACCGTGTGGCCAGCATGCCTCTGATCAGCTCCACCTGCGACATGGTGTCCGCAGCCTATGCCTCCACCAAGGA
GAGTACCCGCACATCAAGACTGTCTGCGACGCAGCAGAGAAGGGAGTGAGGACCCTCACGGCGGCTGCTGTCTCAG
CGGGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCCAGATTGCATCAGCCAGCGAATACGCCCACAGGGGGCTGGA
CAAGTTGGAGGAGAACCTCCCCATCCTGCAGCAGCCCACGGAGAAGGTCTGGCGGACACCAAGGAGCTTGTGTC
GTCTAAGGTGTGCGGGGGCCCAAGAGATGGTGTCTAGCGCCAAGGACACGGTGGCCACCCAATTGTGCGGAGGCGGT
GGACGCGACCCGCGGTGCTGTGTCAGAGCGGCGTGGACAAGACAAAGTCCGTAGTGACCGGCGGCGTCCAATCGGT
CATGGGCTCCCGCTTGGGGCCAGATGGTGTGAGTGGGGTCGACACGGTGTGGGGAAGTCGGAGGAGTGGGCGGA
CAACCACCTGCCCCTTACGGATGCCGAAGTGGCCCGCATCGCCACATCCCTGGATGGCTTTGACGTGCGGTCCGT
GCAGCAGCAGCGGCAGGAACAGAGCTACTTCGTACGTCTGGGCTCCCTGTGCGGAGAGGCTGCGGCAGCACGCCTA
TGAGCACTCGCTGGGCAAGCTTCTGAGCCACCAAGCAGAGGGGCACAGGAGGCTCTGCTGCAGCTGTGCGAGGTCTT
AAGCCTGATGGAAGTGTCAAGCAAGGCGTTGATCAGAAGCTGGTGGAAGGCCAGGAGAAGCTGCACCAGATGTG
GCTCAGCTGGAACCAGAAGCAGCTCCAGGGCCCCGAGAAGGAGCCGCCAAGCCAGAGCAGGTGAGTCCCGGGC
GCTCACCATGTTCCGGGACATTGCCAGCAACTGCAGGCCACCTGTACCTCCCTGGGGTCCAGCATTACAGGGCCT
CCCCACCAATGTGAAGGACCAGGTGCAGCAGGCCCGCCGCGCAGGTGGAGGACCTCCAGGCCACGTTTTCCAGCAT
CCACTCCTTCCAGGACCTGTCCAGCAGCATTCTGGCCAGAGCCGTGAGCGTGTGCGCCAGCGCCCGCGAGGCCCT
GGACCACATGGTGGAATATGTGGCCAGAACACACCTGTCACGTGGCTCGTGGGACCCTTTGCCCCTGGAATCAC
TGAGAAAGCCCCGGAGGAGAAGAAGTAGGGGGAGAGGAGAGGACTCAGCGGGCCCCGTCTCTATAATGCAGCTGT
GCTCTGGAGTCTCAACCCGGGGCTCATTTCAACTTATTTTCTAGCCACTCCTCCAGCTCTTCTGTGCTGTCC
ACTTGGGAAGCTAAGGCTCTCAAAACGGGCATCACCCAGTTGACCCATCTCTCAGCCTCTCTGAGCTTGGAAGAA
GCCTGTTCTGAGCCTCACCTATCAGTCAGTAGAGAGAGATGTCCAGAAAAAATATCTTTCAGGAAAGTTCTCCC
CTGCAGAAATTTTTTTCCTTGTTAAATATCAGGAATATAGGCCGGGTGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGAACACCTGAGGTGAGGTGTTTCGAGACCAGCCAGGCCAACATGGTGAAACCCC
GTCTCTACTAAAAATACAAAAAAATGAGCCGGGCATGGTAGCAGGTGTCTGTTATCCCAGTTAGGAGGCTGAG
GCAAGAGAATCTCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGG
GACAAGAGTGAGACTTAGTCTCA

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FIGURE 5196A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAAACTGATGGGGGTTTTTGTGTCCCTCCCCTCAGC
GCCGACACCATGTGGATCCAGGTTCCGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGCTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACGAGGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCCTGGGCCAGAGTGAGTCAGACAAGTCTCCACCCACGGTGAGGCGGCCGCCGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTGATGCTCGGGACACGAAC
ATGGGGGCGTGGTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCCCTCCCGGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGGCGCTGGAGGAGGACGTCAATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAACTCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACCTCTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTCCGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCCGTCTCTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCCTGCCACCTGTGCGGG
GGCCGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCGACATGGCCTTCCACATCTACTGCCCTGGACCCG
CCCCTCAGCAGTGTTCAGCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCCTCGGCCACATCGTCTCAGCGGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCCGAGTCCAGGTGACGAGTCCGGGTGTCCATCGGCCCCACGTGGCT
GGCATAACGGCCCGGAGCAACGACGGAGCGTACTCCCTAGTCTTGGCGGGGGCTATGAGGATGATGTGGACCAT
GGGAATTTTTTACATACACGGGTAGTGGTGGTCGAGATCTTTCCGGCAACAAGAGGACCGCGGAACAGTCTTGT
GATCAGAACTCACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTCTGGGGAAGCCGGTCAGGGTGGTGCGCAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTTGTGAAATACTGGCCCGAGAAGGGGAAGTCCGGG
TTTCTCGTGTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTTGGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGCTTCGCGTCCCCCAGGACGGGCAAGGGCAAGTGG
AAGCGGAAGTCGGCAGGAGGTGGCCCCGAGCAGGGGCCGGGTCCCCGCGCCGACATCCAAGAAAACCAAGGTGGA
GCCCTACAGTCTCACGGCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGT
CCTGGCGTCACTCAAGGACCGGCCGGCGAGCGGCAGCCGTTCCAGTTGTTTCTGAGTAAAGTGGAGGAGACGTT
CCAGTGTATCTGCTGTGTCAGGAGCTGGTGTTCGGGCCCATCACGACCGTGTGCCAGCACAACGTGTGCAAGGACTG
CCTGGACAGATCCTTTCCGGGCACAGGTGTTAGCTGCCCTGCCCTGCGCTACGACCTGGGCCGAGCTATGCCAT
GCAGGTGAACCAGCCTCTGCAGACCGTCTCAACCAGCTCTTCCCCGGCTACGGCAATGGCCGGTGATCTCCAAG
CACTTCTCGACAGGCGTTTTTGTGAAAACGTGTGCGAGGGGCTCGTTTCATCGGCACTGATTTTGTCTTAGTGGGC
TTAACTTAAACAGGTAGTGTTCCTCCGTTCCCTAAAAAGGTTTGTCTTCCTTTTTTTTTTTTATTTTATTTTTC
AAATCTATACATTTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTAGTTCTTTGA
AAACATAAAAGCCTGCAATTTCTCGACAAAACAACACAAGATTTTTTAAAGATGGAATCAGAACTACGTGGTGT
GGAGGCTGTTGATGTTTTCTGGTGCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTTAAGAAGGCGACAGGATCA
GTCCTTCTCTCGGGTTCTGGCCCCAAGGTCAGAGCAAGCATCTTCCTGACAGCATTTTGTATCTAAAGTCCAG
TGACATGGTTCCCCGTGGTGGCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAA
GGAAAAGAGGAAACATCTCGGGCCTAGTTCAAACCTTTCCTCAAAGCCATCCCCACCAGACTGCTTAGCGTCT
GAGATCCGCGTGAAGTCTCTGCCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTC
TGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACACGAAG
TCACGTGCAAGTGCCTTTGATTGCTTCCTTCTTCTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAA
AATGTCAACCAGATTCTAGAACTGCGGTCATCCAGTTCTTCCTGACACCGGATGGGTGCTTGGGAACCGTTTGA
GCCTTATAGATCATTTACATTCAATTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGGTTTTTTTTAAATTTT
TTTTTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAAC
GTTAGGGTTTGGTTGTTTTTGTATTTTTTCTTTTGAAGGGTTTGTTAATTTTTCTAATTTTACCAA

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FIGURE 5196B

AGTTTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTAT
TTTTAAAGGGTTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAG
GCTTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGAT

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FIGURE 5197A

GTCGCCAGCAACCGAGCGGGGCCCGGCCGAGCGGGGCTGGGGGTGCGACGCCGAGGGCGGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGCACGCCGCCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCAGAACCCAGCTGTAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGACGGGAGCCACCAGGGCGGGCCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGCGCCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAGGACTTTGATGACCTTGAACGCAAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCCCAGTGGAACATCGGGA
GCCTCCGGACCATCTTGACATGGTGGAGCGCGAGTGGCGCACCATCATCGAGGGCGTGAAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCCTGGTACGCCATCCACCAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTGCGACGCCTTCCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCCTGAAGA
AGTACGGGATCCCCCTTCAGCCGGATCACGCAGGAGGCCGGGGAATTCATGATCACATTTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTCAACTGCGCAGAATCTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGACGTGCCGGAAGGACATGGTCAAGATCTCCATGGACGTGTTTCGTGCGCATCTTCGAGCCCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGTGAGCCACACGCGGCCACGGCGCTCACCAGCC
CCGAGCTGAGCTCCTGGAGTGCATCCCGGGCTCGCTGAAGGCCAAGCTCCTCCGCAGGTCTCACCGGAAACGGA
GCCAGCCCAAGAAGCCGAAGCCCCGAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGCAGCGTGAAGGAGGAGGCTGGGCCGGAGGTTGACCCGAGGAGGAGGAGGAGGCCGAGCCAC
TGCCACACGGCCGGGAGGCCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCCTGCTGCCCCACAGCTGCCGCCCCCGCTGCTCACTTCCCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGAGCCCCCGGTGCTGGGCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTGCTGCCCCCTGAGGTGCCCAGTGAGGAGCTAGAGGCCAAGCCTCGGCCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGCCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCTGCCAGCAGGCCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACAGTTTCCCCCATGGAGCTGACGGGGCCAGAGGACGGTGCAG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAGCCCCGGGCCGAGAGGGGCAGGCACCGTCCACATTTTCCAAAT
TGAAGATGGAGATCAAGAAGAGCCGGCGCCATCCCCTGGGCCGGCCGCCACCCGGTCCCCACTGTCCGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCCCTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCCTTGA
GGCCGCTGCTGTCTCTGCAGTGGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAAAGGGCTGCCCCGGCCACATTACCCTCCAAAAGCCGTGAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGCTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGCTGCCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCACGCCTGGACTGCGGAGTGCTGCCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTAAGTCCGGAAGCGGATGAAGAAGGTGTCAGGTGCCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCTT
TCCAGTGACCTGCGCCACGCCGAGGCGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAGTCGGGGGGTACGCTGTCCAACCTCCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCATACCA
AGAACCGCAACGGGCTGTACTACCGCTGTGCGTCTCATGGTGGCGCCTCGCAGACCTGCTACGAAGTGAACCTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCACGAGTAGGGACTGTGTCCAGCTGGGACCCCTT
CCGAGGGGGAGCTGGTGGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTTCATCTCCTCCGTACCA
GCCACATCTACCAGGTGGAGTTTGAGGACGGGTCCAGCTGACGGTGAAAGCGTGGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTCACTGAGCACGGGGGACCGCAGGAGCCCGCCTTCTCGGGGG
AGGAGGCCAAGGCCGCCAAGCGCCCGCTGTGGGCACCCCGCTTGCCACGGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCTGTGAGAGCCTCCTGCAGGTGCAGGGCCGGCCCGGAGCCCCCTTCTAGGACAGCTGGCCGCTCA
GGCGACCCTCAGCCCGGGGGAGGCCATGGCATGCCCCGGCGTTCGCTTGCTGTGAATTCCTGTCTCGTGTC

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FIGURE 5197B

CCCGACCCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTCTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAACACCTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAAATATCCCCAAAGTTGTTTTCTAGATTGTGGCTTTAAGAAAAACAAAACAAAACAAACACA
TTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTCAGAGCATCTCGCTGTTTTTTTTGTTGTTGTTTTTAAATATT
ATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGGCAGGACGC
CCCGGTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTGG
TGCCAGTGCCCTGTGCCACTCTGTGCCTGCTGGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTGG
CCAGGGGAAGCCCGGGGTCTGGGGCCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCCTGGGGTT
TGTCTATCTTTGTTTCTCTCACCTGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGACAGACAAAGCACCCCTGC
ACCTCCTATGGCTCAGGATGAGGGAGGCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTGGACAGCTTCCCAGCTC
TTCGGGTACAACCCTGAGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCCTTCGCCTGCTTCCG
GGCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCACGCTGCTGTCACCTGAGGGGAATCTGCTTCTTAGGA
GTGGGTGAGCTGATAGAGAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTCA
CCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAAT
TTGCTTATATTAAAAACAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCATC
ACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGTG
GGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCCTCCAGCCTGGGCAAC
AGAGCGAGACCCTGTCTCCAAAAAAGCAATGTTTATATTATAAAAGAGTGTCCTAACAGTCCCCGGG
CTAGAGAGGACTAAGGAAAACAGAGAGAGTGTTACGCAGGAGCAAGCCTTTCATTTCCTTGGTGGGGGAGGGGG
CGGTTGCCCTGGAGAGGGCCGGGGTGGGGGAGGTTGGGGGGTGTGAGCCAAAACGTGGAGGTGTCCCTCTGCACG
CAGCCCTCGCCCGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAAAATGCTATTTATATTGTAAAGAAGCG
GGCGGGTGCCCCCTGCTGCCCTTGTCCCTTGGGGGTGACACCCATCCCCCTGGTGGGCTCCTGGGCGGCCTGCGCAG
ATGGGCCACAGAAGGGCAGGCCGAGCTGCACACTCTCCCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAAAG
ACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTCCC
TGCTCTAGGTTTATAATGAATTAAAGGTTTATGAACGCTGC

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FIGURE 5198

MGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPKEWKPRQTYDDIDDVVIPAPIQQV
VTGQSGLEFTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDDLERYWKNLTFVSPYIYGADISGSLYDDDDVAQWN
IGSLRTILDMVERECGTIIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGEPKSWYAIPPEHGKRLERLAI
GFFPGSSQGCDAFLRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATLRWIDY
GKVATQCTCRKDMVKISMDVFVRILQPERYELWKQKDLTVLDHTRPTALTSPELSSWSASRASLKAKLLRRSHR
KRSQPKPKPEDPKFPGEGETAGAALEEAGGSVKEEAGPEVDPEEEEEEPQFLPHGREAEAGAEEDGRGKLRPTKA
KSERKKKSFGLLPPLPPPAHFPSEEALWLPSLEPPVLGPGPAAMEESPLPAPLNVVPPEVPSEELEAKPRPI
IPMLYVVP RP GKAAFNQEHVSCQQAFAEHFAQKGPTWKEPVSPMELTGPEDGAASSGAGRMETKARAGEGQAPSTF
SKLKMEIKKSRRHPLGRPPTRSPLSVVKQEASSDEEASPFSGEEDVSDPDALRPLLSLQWKNRAASFQAERKFNA
AAARTEPYCAICTLFYPYCQALQTEKEAPIASLGKGCPATLPSKSRQKTRPLIPEMCFTSGGENTEPLPANSYIG
DDGTSPLIACGKCCLQVHASCYGIRPELVNEGWTCSRCAAHAWTAECCLCNLRGGALQMTTDRRWIHVICAIAVP
EARFLNVIERHPVDISAIPEQRWKLKCVYCRKRMKKVSGACIQCSYEH CSTSFHVTCAHAAGVLMEPDDWPYVVS
ITCLKHKSGGHAVQLLRAVSLGQVVITKNRNGLYYRCRVIGAASQTCYEVNFDDGSYSDNLYPESITSRDCVQLG
PPSEGELVELRWTDGNLYKAKFISSVTSHIYQVEFEDGSQTLTKRGDIFTLEEEELPKRVR SRLSLSTGAPQEPAF
SGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

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FIGURE 5199

TGCGACTGAGTCGGTGGCGAAGACGGGAACGCGACGATGGCGGAGACTCTGCCCGGGTCGGGCGACTCGGGCCCT
GGCACGGCTTCTCTCGGCCCGGGCGTTGCGGAGACTGGGACGAGGCGGCTCAGCGAGCTGCGGGTGATCGATCTG
CGGGCGGAGCTGAAGAAGCGGAACCTGGACACGGGCGGCAACAAGAGCGTCCTGATGGAGCGGCTCAAGAAGGCG
GTTAAAGAAGAGGGGCAAGATCCTGATGAAATTGGCATCGAGTTAGAAGCCACCAGCAAGAAGTCAGCCAAGAGA
TGTGTTAAAGGACTGAAGATGGAGGAGGAAGGCACAGAAGATAATGGCCTGGAAGACGATTCCAGAGACGGGCGAG
GAGGACATGGAAGCAAGTCTGGAGAACCTGCAGAATATGGGCATGATGGACATGAGTGTGCTAGACGAACTGAA
GTGGCGAATAGCAGTGCTCCAGATTTTGGGGAGGATGGCACGGACGGCCTTCTCGATTCTTTTGTGATAGTAAA
GAATACGTGGCTGCACAGCTGAGACAGCTCCCGGCTCAGCCCCCAGAGCATGCTGTGGATGGGGAAAGGATTTAAG
AACACTTTGGAAACTTCATCGTTGAACTTCAAAGTAACTCCGGACATTGAAGAATCCCTTTTGGAGCCAGAAAAT
GAGAAAATACTCGACATTTTGGGGGAACTTGTAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAG
CCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGGAGGAAGAGGACCTATTTGACAGCGCC
CATCCGGAAGAGGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTG
TTAGCGGTAGTGAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTA
GAGCCGGCAGTTGAGCAGAGTAGTGCGGCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCC
ACGGAAGCCCCAAGCCCAGAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAA
GTCCCTCCGGCTCCTAAAGAGTCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGCTCTTTTAAGGAAGAAAAA
GATATAAAGCCAATCATTTAAAGATGAAAAAGGTGGGTGCGCAGCGGTTCTGGTCGGAACCTGTGGGTGAGCGGG
CTGTCTCCACAACACGCGCTACGGATCTCAAGAACCTTTTTCAGCAAGTATGGGAAGGTTGTGCGGGCCAAAGTG
GTAACGAACGCCCCGAGCCCGGGGGCTCGATGCTATGGATTGCTACCATGTGACATCTGACGAGGCGACCAAG
TGCATCAGCCATCTCCACAGAACTGAGCTGCATGGACGAATGATCTCCGTAGAGAAGGCCAAAAATGAGCCTGCT
GGGAAAAAGCTTTCCGACAGAAAAAGAGTGCGAAGTGAAGAAGGAAAAATTATCGAGTGTGACAGACATCATTCT
GTGGAGATCAAAATTGAAAAAACTGTAATTAAGAAGGAAGAGAAGATTGAGAAGAAGGAGGAAAAAAGCCTGAA
GACATTAAGAAGGAAGAAAAAAGACCAGGATGAGCTGAAACCCGGACCTACAAATCGGTCTAGAGTCACCAATCA
GGAAGCAGAGGAATGGAGCGGACGGTCTGTGATGGATAAATCGAAAGGAGAGCCCGTCATTAGCGTGAAAACCACA
AGCAGGTCCAAAGAGAGAAGCTCCAAGAGTCAGGATCGCAAGTCAGAAAGCAAAGAAAAAGAGAGACATCTTGTCG
TTTGATAAAATCAAAGAACAAAGGGAGAGAGAGCGCCAGAGGCAGCGGGAACGGGAGATCCGCGAAACGGAGAGG
CGGCGGGAGCGCGAGCAGCGGGAGCGGGAGCAACGCCTCGAGGCCTTCCATGAGCGGAAGGAGAAGGCCCGGCTA
CAGCGGGAACGCCTGCAGCTCGAGTGCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAGCGGCTGGAG
CGCGAGCGCATGCGCGTGAGCGCAGGAAGGAGCAGGAGCGCATCCACCGCGAGCGCGAGGAGCTGCGG
CGCCAGCAGGAGCAGCTGCGTTACGAGCAGGAGCGGCGGGCCGGGCGGAGGCCCTACGACCTGGACCGACGAGAT
GATGCCTATTGGCCAGAAGGAAAGCGTGTGGCAATGGAGGACCGATATCGTGACAGCTTTCCCCGGCCAGACCAC
CGCTTTCACGACTTCGATCATCGAGACCGGGGCCAGTACCAGGACCACGCCATCGACAGGCGGGAGGGTTTCGAGG
CCAATGATGGGAGACCACCGGGATGGGCAGCACTATGGAGATGACCGCCATGGCCACGGAGGACCCCCAGAGCGC
CACGGCCGGGACTCCCGTGATGGCTGGGGGGGCTACGGCTCCGACAAGAGGCTGAGTGAAGGCCGGGGGCTGCC
CCTCCCCCAGGGGTGGCCGTGACTGGGGAGAGCACAAACAGCGGCTAGAGGAGCACCAGGCACGCGCCTGGCAG
GGTGCCATGGACGCAGGCGCGGCTAGCCGGGAGCACGCCAGGTGGCAAGGTGGCGAGAGGGGCTGTCTGGGCC
TCGGGGCCGGGGCACATGGCAAGCCGCGGTGGAGTGGCGGGGCGAGGCGGCTTTGCACAAGGTGGACATTCCCAG
GGCCACGTGGTGCCAGGTGGCGGACTGGAAGGTGGCGGAGTGGCCAGCCAGGACCGGGGCGAGAGTCCCTCAC
CCACACCTCATCCCCCCCCGTACCCCCACTTCACCCGCGGCTACTAAGTCCCCTCGCTGTGAGTTTTTCGGGTG
GGCAGACGCACTGTTGAATCTGGTAGCCAGGGTTCCCTCGAAGTTGGGGGATCTTTTTTAAAGCAAAGTAAATCC
TGCCACCATGTTGTAGCTCAATACAATGTGAACTCACTTTTTTTTTTTTTTAAATAAATGTGTTCTGTCTGC
CATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAAATAAAGTTTACCATTGCAAAAAAAA
ATGTGTTCTGTTCTGCCATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAAATAAAGTTTA
CCATTGCG

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FIGURE 5200

MAETLPGSGDSGPGTASLGPGVAETGTRRLSELRVIDLRAELKKRNLDTGGNKSVLMERLKKAVKEEGQDPDEIG
IELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDGGQEDMEASLENLQNMGMMDMSVLDETEVANSSAPDFGED
GTDGLLDSEFCDSKEYVAAQLRQLPAQPPEHAVDGEFGKNTLETSSLNFKVTPDIEESLLEPENEKILDILGETCK
SEPVKEESSELEQPFPAQDTSSVGPDRKLAEEEDLFDSAHPPEEGDLDLASESTAHQAQSSKADSLAVVKREPAPQ
GDGERTDCEPVGLEPAVEQSSAASELAEEASSEELAEAPTEAPSPPEARDSKEDGRKFDFDACNEVPPAPKESSTSE
GADQKMSSFKEEKDIKPIIKDEKGRVGSGRNLWVSGLSSTTRATDLKNLFSKYGKVVGAKVVTNARSPGARC
GFVTMSTSDKATKCIHLHRTLHGRMISVEKAKNEPAGKKLSRKECEVKKEKLSSVDRHHSVEIKIEKTVIKK
EEKIEKKEKKPEDIKKEEKDQDELKPGPTNRSRVTKSGSRGMERTVMDKSKGEPVISVKTTSRSKERSSSKSQD
RKSESKEKRDILSFDKIKEQRERERQRQREIRETERRREREQREREQRLEAFHERKEKARLQRERLQLECRQ
RLERERMERERLERERMRVERERRKEQERIHREREELRRQQEQLRYEQERRPGRRPYDLDRDDAYWPEGKRVAM
EDRYRADFPRPDHRFHDFDHRDRGQYQDHAIDRREGSRPMMGDHRDGGHYGDDRHHGGPPERHGRDSRDGWGGY
GSDKRLSEGRGLPPPPRGGRDWGEHNQRLEEHQARAWQGAMDAGAASREHARWQGGGERGLSGPSGPGHMASRGGV
AGRGGFAQGGHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPHPPYPHFTRRY

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FIGURE 5201

GACCGGGGCGTGCGGAGGGATGTGGCCCGGAATATTGGTAGGGGGGGCCCGGGTGGCGTCATGCAGGTACCCCGC
GCTGGGGCCCTCGCCTCGCCGCTCACTTTCCAGCGCAGCGGCCCGCCGAGCGGACACTCCAGAACGGCCTGGCCCT
GCAGCGGTGCCTGCACGCGACGGCGACCCGGGCTCTCCCGCTCATTCCCATCGTGGTGGAGCAGACGGGTGCGGG
CGAGCGCGCCTATGACATCTACTCGCGGCTGCTGCGGGAGCGCATCGTGTGCGTCATGGGCCCAGATCGATGACAG
CGTTGCCAGCCTTGTTATCGCACAGCTCCTCTTCCTGCAATCCGAGAGCAACAAGAAGCCCATCCACATGTACAT
CAACAGCCCTGGTGGTGTGGTGACCGCGGGCCTGGCCATCTACGACACGATGCAGTACATCCTCAACCCGATCTG
CACCTGGTGCCTGGGCCAGGCCGCCAGCATGGGCTCCCTGCTTCTCGCCGCCGGCACCCAGGCATGCGCCACTC
GCTCCCCAACTCCCGTATCATGATCCACCAGCCCTCAGGAGGCGCCCGGGGCCAAGCCACAGACATTGCCATCCA
GGCAGAGGAGATCATGAAGCTCAAGAAGCAGCTCTATAACATCTACGCCAAGCACACCAAACAGAGCCTGCAGGT
GATCGAGTCCGCCATGGAGAGGGACCGCTACATGAGCCCCATGGAGGCCAGGAGTTTGGCATCTTAGACAAGGT
TCTGGTCCACCCTCCCCAGGACGGTGAGGATGAGCCACGCTGGTGCAGAAGGAGCCTGTAGAAGCAGCGCCGGC
AGCAGAACCTGTCCAGCTAGCACCTTGAGAGCTGGGCCTCCTCTCCAGAATCATGTGGAGGGGCCAGAGGCTTGC
CAGACCCCCAGCTGGGCCCTGCTCACCCCTTGTTGCTGGGCTTGGAGGGGCCTCTTGAGGAACTTTTAATTGCA
GGGGTGCCCGCTATGGACGGGCATTCCAGCTGAGACACTGTGATTTTAAATTAAATCTTTGTGGTCTT

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FIGURE 5202

MWPGILVGGARVASCRYPALGPRLAAHFPAQRPPQRTLQNGLALQRCLHATATRALPLIPIVEQTGRGERAYDI
YSRLLRERIVCVMGPIDDSVASLVIAQLLFLOSESNNKPIHMYINSPGGVVTAGLAIYDTMQYILNPICWCVGQ
AASMGSLLLAAGTPGMRHSLPNSRIMIHQPSGGARGQATDIAIQAEEMKLKKQLYNIYAKHTKQSLQVIESAME
RDRYMSPMEAQEFGILDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

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FIGURE 5203

TGTGGAGCGAAGCCTTGTTCCCGCGTTGAGCCGCCGCCGCCGCCGCCCTCCTCAGCTTCAGCCTCCGCGCCAG
GCCCCGCCCCCGCCGCCATGTTCGGACTACAGCACGGGAGGACCCCCGCCCCGGGCCGCCGCCGCCGCCGCCGCGG
GGCGGGGGGAGCCGGAGGCGCCGGGGGAGGCCCTCCGCCGGGCCGCCAGGCGCGGGGGACCGGGGCGGCGGCGGT
CCCTGCGGCGGCGGCCCGGGCGGGGGTCCGCCGGGGGCCCTCTCAGCCACCCGGCGGAGGCGGCGCGGGAATC
CGCAAGGACGCTTTCGCCGACGCCGTGCAGCGGGCCCGCCAGATTGCAGCCAAAATTGGAGGCGATGCTGCCACG
ACAGTGAATAACAGCACTCCTGATTTTGGTTTTGGGGGCCAAAAGAGACAGTTGGAAGATGGAGATCAACCGGAG
AGCAAGAAGCTGGCTTCCCAGGGAGACTCAATCAGTTCTCAACTTGGACCCATCCATCCTCCCCAAGGACTTCA
ATGACAGAAGAGTACAGGGTCCCAGACGGCATGGTGGGCTGATCATTGGCAGAGGAGGTGAACAAATTAACAAA
ATCCAACAGGATTACAGGCTGCAAAGTACAGATTTCTCCAGACAGCGGTGGCTACCCGAGCGCAGTGTGTCTTG
ACAGGAGCCCCAGAATCTGTCCAGAAAGCCAAGATGATGCTGGATGACATTGTGTCTCGGGTCTGTGGGGGCCCC
CCAGGACAGTTCCACGACAACGCCAACGGGGGCCAGAACGGCACCGTGCAGGAGATCATGATCCCCGCGGGCAAG
GCCGGCTGGTCATTGGCAAGGGCGGGGAGACCATTAAAGCAGCTGCAGGAACGCGCTGGAGTGAAGATGATCTTA
ATTCAGGACGGATCTCAGAATACGAATGTGGACAAACCTCTCCGCATCATTGGGGATCCTTACAAAGTGCAGCAA
GCCTGTGAGATGGTGTGATGGACATCCTCCGGGAACGTGACCAAGGCGGCTTTGGGGACCGGAATGAGTACGGATCT
CGGATTGGCGGAGGCATCGATGTGCCAGTGGCCAGGCATTCTGTTGGCGTGGTCATTGGCCGGAGTGGAGAGATG
ATCAAGAAGATCCAGAATGATGCTGGCGTGGGATACAGTTCAAGCAAGATGACGGGACAGGGCCCCGAGAAGATT
GCTCATATAATGGGGCCCCCAGACAGGTGCGAGCACGCAGCCCGGATCATCAACGACCTCCTCCAGAGCCTCAGG
AGTGGTCCCCCAGGTCTCCAGGGGGTCCAGGCATGCCCCGGGGGGGCCGAGGCCGAGGAAGAGGCCAAGGCAAT
TGGGGTCCCCCTGGCGGGGAGATGACCTTCTCCATCCCCACTCACAAGTGTGGGCTGGTCATCGGCCGAGGTGGC
GAGAATGTGAAAGCCATAAAACCAGCAGACGGGAGCCTTCGTAGAGATCTCCCGGCAGCTGCCACCCAACGGGGAC
CCCAACTTCAAGTTGTTTCATCATCCGGGGTTACCCACAGCAGATTGACCACGCCAAGCAGCTTATCGAGGAAAAG
ATCGAGGGTCTCTCTGCCAGTTGGACCAGGCCAGGTGGGCCAGGCCCTGCTGGCCCAATGGGGCCCTTCAAT
CCTGGGCCCTTCAACCAGGGGCCACCCGGGGCTCCCCACATGCCGGGGGGCCCCCTCCTCACCAGTACCCACCC
CAGGGCTGGGGCAATACCTACCCCCAGTGGCAGCCGCTGCTCCTCATGACCCAAGCAAAGCAGCTGCAGCGGCC
GCGGACCCCAACGCCGCGTGGGCCGCTACTACTACACTACTACCAGCAGCCCCCGGGCCCCGTCCCCGGCCCC
GCACCGCCCCCTGCGGCCCCACCGGCTCAGGGTGAGCCCCCTCAGCCCCCACCCACCGGCCAGTCGGACTACACT
AAGGCCTGGGAAGAGTATTACAAAAAGATCGGCCAGCAGCCCCAGCAGCCCGGAGCGCCCCCACAGCAGGACTAC
ACGAAGGCTTGGGAGGAGTACTACAAGAAGCAAGCGCAAGTGGCCACCGGAGGGGGTCCAGGAGCTCCCCAGGC
TCCCAGCCAGACTACAGTGCCGCTGGGCGGAATATTACAGACAGCAGGCCGCTTACTACGGACAGACCCAGGT
CCTGGCGGCCCCCAGCCGCCGCCACGCAGCAGGGACAGCAGGCTCAATGAATCGAATGAATGTGAACCTTCT
TCATCTGTGAAAAATCTTTTTTTTTTCCATTTTGTCTGTTTGGGGGCTTCTGTTTTGTTTGGCGAGAGAGCGAT
GGTGCCGTGGGGAGTACTGGGGAGCCCTCGCGGAAGCAGGGTGGGGGGGACTTGGGGGCATGCCGGGCCCTCAC
TCTCTCGCCTGTTCTGTGTCTCACATGCTTTTTCTTTCAAATTTGGGATCCTTCCATGTTGAGCCAGCCAGAGAA
GATAGCGAGATCTAAATCTCTGCCAAAAAAAAAAAAAATTTAAAAATTAAAAACACAAAGAGCAAAGCAGAACTT
ATAAAATTATATATATATATATATATAAAAGTCTCTATTCTTACCCCCCAGCCTTCTTGAACCTGCCTCTCTGAGG
ATAAAGCAATTCAATTTCTCCACCCCTCGGCCCTCTGTTTTTAAATAAACTTTTAAAAAGGAAAAAAAAAAGT
CACTCTTGCTATTTCTTTTTTTTAGTTAGAGGTGGAACATTCTTGGACCAGGTGTTGTATTGCAGGACCCCTTC
CCCCAGCAGCAAGCCCCCTCTTCTCTCCCTCCCGCCCTGGCTCAGCTCCCGCGGCCCCCGCCGTCCCCCTCCC
AGGACTGGTCTGTTGTCTTTTCATCTGTTCAAGAGGAGATTGAAACTGAAAACAAAATGAGAACAACAAAAAAA
TTGTATGGCAGTTTTTACTTTTTATCGCTCGTTTTTAACCTCACAAATAAATGATAACAAAACCTCAAAAAAAA
AAAAAAA

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FIGURE 5204

MSDYSTGGPPPGPPPPAGGGGGAGGAGGGPPPGPPGAGDRGGGGPCGGGPGGGSAGGPSQPPGGGGPGIRKDAFA
DAVQRARQIAAKIGGDAATTVNNSTPDFGFGGQKRQLEDGDQPESKKLASQGDSISSQLGPIHPPRTSMTEEYR
VPDGMVGLIIIGRGGEQINKIQDQSGCKVQISPDSGGLPERSVSLTGAPESVQKAKMMLDDIVSRGRGGPPGQFHD
NANGGQNGTVQEIMIPAGKAGLVIGKGGETIKQLQERAGVKMILIQDGSQNTNVDKPLRIIGDPYKVQQACEMVM
DILRERDQGGFGDRNEYGSRIGGGIDVPVPRHSVGVVIGRSGEMIKKIQNDAGVRIQFKQDDGTGPEKIAHIMGP
PDRCEHAARIINDLLQSLRSGPPGPPGGPGMPPGGRGRGRGQGNWGPPGGEMTFSIPTHKCGLVIGRGGENVKAI
NQQTGAFVEISRQLPPNGDPNFKLFIIRGSPQQIDHAKQLIEEKIEGPLCPVGPGGPGGPAGPMGPFNPGPFNQ
GPPGAPPHAGGPPPHQYPPQGWGNTYPQWQPPAPHDPSKAAAAAADPNAAWAAAYYSHYYQPPGPVGPAPAPAA
PPAQGEPPQPPPTGQSDYTKAWEEYYKKIGQQPQQPGAPPQQDYTKAWEEYYKKQAQVATGGGPGAPPGSQPDYS
AAWAEYYRQQAAYYGQTPGPGGPQPPPTQQGQQQAQ

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FIGURE 5205A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGC GGCTGGAGAGCGAGGAGACCATGGTGTGGAGGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAACTAGTGTGTCCAGTGAGAAGACTGTGCTGACCCCTGCCACC
AACCACATGGGCAACGTACCTTCACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGGAGAAGGTGGTGTGCTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCCGGACGGTTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACACCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCC
AGTTTCGAGGTCAAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTCTCTACGGGAAGAAAGTGGAGGGAACTGCCTTTGTCTCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCAATTCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGCAGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTTCGTGACGAACCCGTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCACTCTTAACCCAGGGAGATGGC
GTGGCCAAAACCTCAGCATCAACACACACCCCGAGCCAGAAGCCCTTGAGCATCACGGTGGCGACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGAGACCCTCAACGTCAACTTCCTCTCGGAATGGAC
CGCGCCACGAGGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGCGGGACGC
CAGGTGCGAGAGCCCCGGCCAGGACCTGGTGGTGTGCCCCCTGTCCATCACCACCGACTTCATCCCTTCCTTCCGC
CTGGTGGCGTACTACACGTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCTGAAGATAGAGGGTGACCACGGGGCCCGGGTGGTACTGGTGGCCGTGGACAAGGGCGTTCGTGCTG
AATAAGAAGAACAACCTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCCGAGCCAGCCGCCCGCCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGACCCGTTTCATCTCCCTGGGCGAGGCGTGCAAGAAGGTCTTCTGGAAGTGTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGGGGCCAGCCACCTGGGCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAACATCGTTTCCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACCACGTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCTACTCTGTTGTTTCAAACGAGCAGGTGGAAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGGTGGAACCTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCCTAAGTCTCGTTGTCCGTTCCATATGTCATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCTGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACCTGTGGCTGTTTCGCACCCTGGATCCAGAACGCTGGGCCGTGAA
GGAGTGCAGAAAGAGGACATCCCACCTGCAGACCTCAGTGACCAAGTCCCGGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCCCAGTGGCCCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCCACGGTCATCGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTTCGGCCTAGAGAAGCGGCAGGGGGCCTTGAGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTGCGGCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCTCTGCGGGGCTGTTAAA
TGGCTGATCCTGGAGAAGCAGAAGCCCCGACGGGGTCTTCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCCTTGAAGCCAACCTAC

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FIGURE 5205B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCGAAGCCTTGGCT
CAATACCAAAAGGACGCCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTGGCCAGCCGAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTCGGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAATTCGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTGACAGATACATCTCC
AAGTATGAGCTGGACAAAAGCCTTCTCCGATAGGAACACCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGTTTCTACCATCCGGAAGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAAGTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCACCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTTCAAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCCGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTGACCACACCCCCATTCC

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FIGURE 5206

GGCCGCGGTGGTGGCTGCGGCGGCGGCGGCGGGAGCAGCATGGATTGGGGCACTGAGCTGTGGGATCAGTTTCGAG
GTGCTCGAGCGCCACACGCAGTGGGGGCTGGACCTGTTGGACAGATATGTAAAGTTTCGTGAAAGAACGCACCGAA
GTGGAACAGGCTTACGCCAAACAACCTGCGGAGCCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGAT
CCTGAGTCCAAATTCAGCCAGCAACAGTCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGG
GAGCTGGTGGCTGAGAACCTCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAG
AGGAAGATGCACTTCCAAGAAGGGCGGCGGGCCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGT
AAGCGTAAATTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATC
AACGCCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCCACCTTCGGAGTCACATGGCCGAAGAAAGCAAA
AACGAATATGCGGCTCAACTGCAGCGCTTCAACCGAGACCAAGCCCACCTTCTATTTTTTACAGATGCCCCAGATA
TTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCTGGGTGCCGGGTATGGGCTCCTGTTCGGAGGCC
GAGCTGGAGGTGGTGCCATAATAGCCAAGTGCTTGAGAGGCATGAAGGTGGCTGCAATGCTGTGGATCCCAAG
AACGACTCCCACGTCTTATAGAGCTGCACAAGTCAGGTTTTGCCCCGCCGGCGACGTGGAATTCGAGGACTTC
AGCCAGCCCATGAACCGTGCACCCTCCGACAGCAGTCTGGGCACCCCCCTCGGATGGACGGCCTGAACTCCGAGGC
CCGGGTCGCAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAACAAGACAGTGGTGACCGAGGATTTTAGCCAC
TTGCCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAGTTGGAAGAACGCAGTCGTGAACTTCAGAAGGAGGTT
GACCAGAGGGAAGCCCTAAAGAAAATGAAGGATGTCTATGAGAAGACACCTCAGATGGGGGACCCGCCAGCTTG
GAGCCCCAGATCGCTGAAACCCTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTG
GCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCGGCCTCCCGACCCCCC
GCTAGCGCCCCGCCAGACAGCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCA
GAAGAGAGCCAGGACACCCCCATTTACACGGAGTTTGATGAGGATTTTCGAGGAGGAACCCACATCCCCCATAGGT
CACTGTGTGGCCATCTACCACCTTTGAAGGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGT
CTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTCAGGCGGAAAGAGGGAGGCGAGGGCTACGTGCCCACC
TCCTACCTCCGAGTCACGCTCAATTGAACCCTGCCAGAGACGGGAAGAGGGGGGCTGTTCGGCTGCTGCTTCTGGG
CCACGGGGAGCCCCAGGACCTATGCACTTTATTTCTGACCCCGTGGCTTCGGCTGAGACCTGTGTAACCTGCTGC
CCCCCTCCACCCCCAACCAGTCCTACCTGTACACCGGACGGACCCGCTGTGCCTTCTACCATCGTTCCACCATT
GATGTACATACTCATGTTTTACATCTTTTCTTTCTGCGCTCGGCTCCGGCCATTTTGTTTTATACAAAATGGGT
TTTTTTTTTTTCTTTAATATATTTCAAGAGATTTTTTTTTTTTTTTTTTTTT

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FIGURE 5207

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQQSFVQ
ILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEGRRQQQLENGFKQLENSKRKFERDCREAEK
AAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQDMERRAT
RLGAGYGLLSEAELEVVPPIIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPGDVEFEDFSQPMNRAPSDSSL
GTPSDGRPELRGPGRSRTKRWPFGKKNKTVVTEDFSHLPPEQQQRKRLQQQLEERSRELQKEVDQREALKKMKDVY
EKTPQMGDPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVLSNRGDSLRSRHARPPDPPASAPPDSSSNSAS
QDTKESSEEPFSEESQDTPITYTEFDEDFEEPTSPIGHCVAIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRV
RRKEGGEGYVPTSYLRLVTLN

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FIGURE 5208

CGGGGGTGACAGCAGCCCCGGAGCGCGGAGCCTCAGCTTCCGCCTGGACCCAGCCTCGTGGGAGCCCCGCGGGTC
CTGCCCAGATGTGGAAGACTGAGGCCTGTTGAAAGTGCAGAGCTCAGCCCTGGCACCCCTCTGTTCCCAAGAGCTC
CATGCAGGTGCCACAGGATGGAGAAGACCTTGCTGGCCAACCCTGGTACCACGGCCTCCTGTCCCGCCAGAAGGC
TGAAGCTCTTCTTCAGCAAGATGGCGACTTCCTGGTTTCGCGCCTCTGGGTCCCGTGGGGGCAACCCCGTGATCTC
CTGCCGCTGGCGGGGCTCAGCCCTCCATTTTGGAGGTGTTCCGTGTGGCCCTGCGTCCCCGGCCAGGCCGACCCAC
AGCCCTCTTTCAACTGGAGGATGAGCAATTCCCCAGCATACCGGCTCTGGTTCACAGTTATATGACAGGCAGGCG
CCCCTGTCCCAGGCCACAGGGGCTGTGGTCTCCAGGCCTGTGACTTGGCAGGGGCTCTGCGACGCAGCTTTAG
CGAGGACACCCCTGATGGATGGCCCAGCTCGGATAGAGCCTCTCAGGGCAAGGAAGTGGAGCAACAGTCAGCCTGC
AGATTTGGCACATATGGGGCGGTCAAGAGAAGACCCGCTGGGATGGAAGCCTCCACCATGCCATATCTGCCTT
GCCCCGAACGAGCAGTGACCCGGTGTGCTGAAGGCCCTGCTCCCCTGGGAACTGTTGCCGACAGTCTCAGGGC
CTCCGATGGGCAGCTTCAAGCCAAGGCACCAACGAAGCCCCCGGACACCCCTCCTTCGAACTGCCTGATGCCTC
TGAACGTCCCCGACGTACTGCGAGCTGGTGGCCCGAGTGCCAGTGTCCAGGGAACATCCCCGAGCCAAAGCTG
CCCAGAGCCAGAGGCCCCATGGTGGGAGGCCGAGGAGGATGAGGAGGAAGAGAATAGATGTTTTACAAGACCACA
GGCTGAGATCTCTTTCTGCCCCCATGATGCCCCCTCCTGCCTGCTGGGCCCCAGAATCGGCCCTTGAACCCCA
AGTCTGCATACCCTCCGTGGCCTGTTCTTGGAGCACCATCCTGGGAGCACCGCCCTTCACCTGCTATTGGTAGA
CTGCCAGGCCACAGGCCTCCTGGGAGTGACCAGAGATCAGCGGGCAACATGGGAGTCTCATCTGGCCTGGAGCT
GCTCACTCTTCCCCATGGACACCACTTGAGGTTGGAAGTCTGAGAGGCATCAGACACTGGCGCTGGCCGGGGC
GCTGGCGGTGCTGGGCTGCTCGGGGCCGCTGGAGGAGCGCGCAGCCGCACTGAGGGGACTGGTAGAGCTGGCGCT
GGCGCTGCGGCCAGGGGCGGCGGGGGACCTGCCCGGGCTGGCTGCAGTCATGGGCGCCCTGCTCATGCCCCAGGT
GTCCCGGTTGGAGCACACGTGGCGCCAGCTCCGAAGGAGCCACACGGAGGCTGCGCTGGCCTTTGAGCAGGAGCT
GAAGCCGCTGATGCGGGCTCTGGATGAGGGCGCTGGACCCTGCGACCCCGCGAGGTGGCGCTGCCGCACGTGGC
ACCCATGGTTTCGCCTACTGGAGGGCGAGGAAGTCGCGGGGCGCTGGACGAGAGCTGTGAGCGGCTGTTGCGCAC
CCTGCACGGGGCGCGTCACATGGTCCGGGACGCACCCAAATTCCGCAAGGTGGCAGCCAGCGCCTGCGAGGATT
CCGGCCTAACC CGGAGCTGAGGGAGGCCCTGACCACCGCTTCGTGCGGAGGCTGCTCTGGGGTAGCCGGGGCGC
GGGAGCTCCGCGCGCTGAACGCTTTGAGAAGTTCCAGCGCGTCTCGGCGTCTGTGCGAGCGCCTGGAGCCTGA
CCGCTGAGAGCGCAGACACCCTTCTTCACACCCGGGACCCCAAGTTTTTGCGAACCCAGAAGAGACCAAGGA
GTCGTCCCAGGCTCCTCGCGCCTCAGGTGGAATCCTGCCCTGTGCCTCACAGAAGAGGTGGGGACCGCAGTCAGG
GTCACCTGGACCATGGTGAACATGTGACCTGCAGATCTGGCATCAGAGGCCAGAGTTCAAATGTGACTCCACCTC
TTAAAAGCCGTGATTTCTAGCAGTTGACTTCACCTCTGTGTGGCCTTTAACAAAATCATAGCCATACAGCAGCT
CAGGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGAAGGAAGGCTTGAGGCCAGGAGTTCAAGACCAGCCAG
GGCAACATGGTGAGACCTCATCTCTACAAAACTGAAAAATAAAAACTTTTAAAAAATGTAAAAAAAAAAAAAA
AA

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FIGURE 5209

MQVPQDGEDLAGQPWYHGLLSRQKAEALLQQDGDFLVRASGSRGGNPVISCWRGSSALHFEVFRVALRPRPGRET
ALFQLEDEQFPSIPALVHSYMTGRRPLSQATGAVVSRPVTWQGPLRRSFSEDTLMDGPARIEPLRARKWSNSQPA
DLAHMGRSREDPAGMEASTMPI SALPRTSSDPVLLKAPAPLGTVADSLRASDGQLQAKAPTKPPRTPSFELPDAS
ERPPTYCELVPRVPSVQGTSPSQSCPEPEAPWWEAEDEEEENRCFTRPQAEISFCPHDAPSCLLGPNRPLEPQ
VLHTLRGLFLEHHPGSTALHLLLVDQCQATGLLGVTRDQRGNMGVSSGLELLTLPHGHHLRLELLERHQTLALAGA
LAVLGCSGPLEERAAALRGLVELALALRPGAAGDLPGLAAVMGALLMPQVSRLEHTWRQLRRSHTAALAFEQEL
KPLMRALDEGAGPCDPGEVALPHVAPMVRLLEGEVAGPLDESCERLLRTLHGARMVRDAPKFRKVAAQRLRGF
RPNPELREALTTGFVRRLLWGSRGAGAPRAERFEKFQRVLGVLQRLEPDR

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FIGURE 5210

AGGGAAGACACGCGTGACCCGGAAGGTCTTCCCGCCACACTCCAGAGCGGATGTGAGGGGCGCCGATGGCGGAGG
GAACGGCGGAGGCTCCTCTAGAGAATGGTGGTGGTGGCGACTCGGGAGCCGGAGCTTTGGAACGAGGAGTGGCGC
CCATTAAGCGTCAATACCTCACCACCAAGGAGCAGTTTCACCAATTCCTGGAAGCCAAAGGGCAGGAGAAGACTT
GCCGGGAAACCGAGCTGGACATCCGTGGCAAACCTTTACCTGGCCCCCTCACCACGTGTGGGAACCTGCCCTTCC
GACGGATCTGCAAGCGCTTCGGGGCGGATGTGACATGTGGAGAGATGGCCGTCTGCACCAACCTGCTGCAGGGCC
AGATGTCCGAGTGGGCCCTACTCAAACGCCACCAGTGTGAGGACATCTTTGGCGTCCAGCTGGAGGGCGCCTTCC
CCGACACCATGACCAAGTGTGCCGAGCTGCTGAGCCGCACCGTGGAGGTGGACTTTGTGGACATCAACGTCGGCT
GCCCCATCGACCTCGTGTACAAGAAGGGTGGGGGCTGTGCCCTCATGAATCGCTCCACCAAGTTCCAGCAGATCG
TCCGTGGCATGAACCAGGTGCTGGATGTGCCGCTGACTGTGAAGATCCGCACAGGCGTCCAGGAGCGTGTGAACC
TGGCGCACCGCCTGCTGCCCCGAGCTGCGGGACTGGGGCGTGGCACTCGTCACGCTCCACGGCCGCTCTCGGGAGC
AGCGCTACACCAAGCTAGCCGACTGGCAGTACATCGAGGAGTGCCTGCAGGCCGCCAGCCCCATGCCCTGTTCCG
GAAATGGGGACATCTTGTCATTTGAGGATGCCAACC CGCCATGCAGACTGGTGTACCGGGATCATGATTGCC
GTGGCGCCCTGCTCAAGCCGTGGCTCTTCACGGAGATCAAGGAGCAGCGGCACTGGGACATCTCGTCGTCCGAGC
GCCTGGACATCCTGCGGGACTTCACCAACTACGGCCTGGAGCACTGGGGCTCGGACACGCAGGGCGTGGAGAAGA
CCCGGCGCTTTCTGCTCGAGTGGCTGTCCTTCCTGTGCCGGTACGTGCCCGTGGGGCTGCTGGAGCGGCTCCAC
AGAGGATCAACGAGCGGCCGCCCTACTACCTGGGCCGCGACTACCTGGAGACGCTGATGGCCAGCCAGAAGGCAG
CCGACTGGATCCGCATCAGCGAGATGCTCCTTGGGCCAGTGCCCCCAGCTTCGCCTTCTTGCCGAAGCACAAAGG
CCAACGCGTACAAGTAGCCTCAGGCTTTCCAGGGGCACCTGGGGCGAGGAGGTACAATAAATTTATTCTTT
T

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FIGURE 5211

MAEGTAEAPLENGGGGDSGAGALERGVAPIKRQYLTTKEQFHQFLEAKGQEKTCRETEVGDPAGNELAEPEAKRI
RLEDGQTADGQTEEAEPGEQLQTQKRARGQNKGRPHVKPTNYDKNRLCPSLIQESAAKCFFGDRCRFLHDVGRY
LETKPADLGPRCVLFETFGRCPYGVTCRFAGAHLRPEGQNLVQEELAARGTQPPSIRNGLDKALQQQLRKREVR
ERAEQALRRFSQGPTPAAAVPEGTAAGAPRQENCGAQQVPAGPGTSTFPSSPVRTCGPLTDEDVVRLRPCEKKR
LDIRGKLYLAPLTTCGNLPFRRICKRFGADVTCGEMAVCTNLLQGQMSEWALLKRHQCEDIFGVQLEGAFPDTMT
KCAELLSRTVEVDFVDINVGCPIDLVYKKGGGCALMNRSTKFQQIVRGMNQVLDVPLTVKIRTGVQERVNLAHRL
LPELRDWGVALVTLHGRSREQRYTKLADWQYIEECVQAASPMPLFGNGDILSFEDANRAMQTGVTGIMIARGALL
KPWLFTEIKEQRHWDISSERLDILRDFTNYLEHWGSDTQGVEKTRRFLEWLSFLCRYVPVGLLERLPQRINE
RPPYYLGRDYLETLMASQKAADWIRISEMLLGPVPPSFAFLPKHKANAYK

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FIGURE 5212

CGGGTTTTCCAATCTCTGTGTAGCTAGCAGTTCTCTTCGTGTTAGTGTGGCAGCCGTGCCAGTTCACATTTGTG
ATTGCTTTATTTCCCTGGTAATTAAACCTTGTGCCATTCTATTCCCTGTTAAATCCGTAGAAAATGAGAAAATACT
CGACATTTTGGGGGAAACTTGTAAATCTGAGCCAGTAAAGAAGAAAGTTCCGAGCTGGAGCAGCCATTTGCACA
GGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGCAGGAGGAAGAGGACCTATTTGACAGCGCCCATCCGGAAGA
GGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGT
GAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGT
TGAGCAGAGTAGTGGGCTCCGAGCTCGCGGAGGCTCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCC
AAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAAATGAAGTCCCTCCGGC
TCCTAAAGAGTCCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGGTTTGTTTTTTCTCAGTTTTAGACCAGACG
CTATCTCCTTTTCATTGGTCATGTAATGACACACATAAGCTGTTTTTTCTGCAATTGGCCAGCCAGACTGACGA
AATTGTAGTTTTGCTTCTAAAGAATGTTTCGTTTTCTTTGTGTGTTTTAATGGGTGATTCAATTCCTTTTCTT
TTTCTCAACCTACCATGGTTGTGTTCTTAAATTCTTCTAATTACCTTTAGCCCAGCAGAATTAATTAACCTCTG
TGGGTCTGAAATCTTATGGTTAGGTCAGATTTTCAATACAAGTTTGTGCGGGTATCATTTTTTTCAGAACTAAATT
TCGGGTAGGTATGCAACCTCAGCACGAATTTTATGGTTTTGAGTTTGTTCCTCCATGCTGCTTCCTTGTGGAGT
GACATTGTCTTTTGTCTCTAGTTCTCCCGAAGATGACTCGGATACAAAAAGGCTTTCCAAAGAGGAAAAGGGTCG
CAGCAGTTGTGGTAGAAAATTTCTGGGTTAGTGGACTCTCTTCTACAACCAGAGCTACAGATTTGAAGAATCTTTT
CAGCAAAATATGGGAAGGTGGTGGGCGCCAAGGTTGTGACAAATGCCCGGAGTCTGGAGCTCGCTGTTACGGTTT
TGTCACGATGTCCACAGCAGAAGAGGCCACAAAATGCATTAACCACTGCACAAGACGGAGCTCCACGGAAGAT
GATCTCCGTGGAGAAAAGCCAAAAATGAACCTGTGGGAAAGAAAACCTCTGACAAAAGAGACAGTGACGGGAAAAA
GGAGAAGTCGAGCAACAGTGACAGATCTACAAACCTTAAGAGGGATGATAAATGTGACAGAAAAGATGATGCTAA
GAAGGGTGACGACGGAAGTGGAGAAAAGAGTAAGGACCAAGATGATCAGAAACCTGGCCCTCAGAGCGATCTCG
AGCCACAAAGTCAGGAAGTCGAGGGACCGAACGGACTGTAGTAATGGATAAATCCAAAGGGGTGCCTGTGATTAG
TGTA AAAACGTCCGGGTCCAAAGAGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGGTC
CGTCGTGTCCTTTGATAAGGTCAAGGAGCCTCGGAAGTCAAGAGACTCAGAGTCCCATAG

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FIGURE 5213

CGAACTCCGCCCCCTCTTCTCCGCGTAGGCCCCAGCTCCCTGAAGCGGCTGTTTCGAGCCACGCGCCCATCGGGTA
CCGAGGCACGCGCCGGGCGTACGTGCGTTTTCGCGGCGAGCGGAAATGACGCGAGTTGTGTGAGCCGCCAGTATG
GCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCGCGGTGCTGGGTGCTGCGGCGGCCGA
TGCTGGCCGCCCGGGGGGGCGGGTTCCCACTGCAGCAGGAGCGTGGTTGCTCCGAGGCCAGCGGACCTGCGACG
CCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGGCAATTGGGGGGCCAATGGCGGGGGTTTTGGGAAGCGAGCA
GCCGCGGCGGAGGCGCATTCTCGGGGGCGAGGACGCTCCGAGGGCGGCGCGGAGGAAGGAGCCGGCGGCGCGG
GGGGCAGCGCGGCGCCGGGGGAAGGCCCGGTACATAACGGCGCTCACGCCCATGACGATCCCCGATGTGTTTTCCGC
ACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCGCCGCTTTATCAAGATTATCGAGGTTAAAAATAAGA
AGTTGGTTGAGCTGCTGAGAAGGAAAGTTCGTCTCGCCAGCCTTATGTCGGCGTCTTTCTAAAGAGAGATGACA
GCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGGACGTTTGCCAGATCCATGAGATGC
AGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTCCATATCAGCAGACAGCTGGAGGTGG
AGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAGCCCCGAGGAAGTCAAAGCGGGGCAAGAAGGAGGCGGAGG
ACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCCACCCCTGAGCTCCCGGCTGAGGTGCTCATGG
TGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTACGAGGAGGTGAAAGCCCTGACTGCAGAGATCGTGA
AGACCATCCGGGACATCATTGCCTTGAACCCCTCTCTACAGGGAGTCAGTGCTGCAGATGATGCAGGCTGGCCAGC
GGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACCGGGGCCGAGTCCCATGAGCTGCAGG
ACGTCCTGGAAGAGACCAATGTGGAGGAGAAGATCAAGCAGACCCACCGTAAQTACCTGCTGCAGGAGCAGCTAA
AGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAGGATGCCATCGAGGAGAAGTTCGGGGAGCGCCTGA
AGGAGCTCGTGGTCCCCAAGCACGTATGGATGTTGTGGACGAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACC
ACTCCTCGGAGTTCAATGTCACCCGCAACTACCTAGACTGGCTCACGTCCATCCCTTGGGGGCAAGTACAGCAACG
AGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAAGACCACTACGGCATGGAGGACGTCAAGAAACGCA
TCCTGGAGTTTCATTGCCGTTAGCCAGCTCCGCGGCTCCACCCAGGGCAAGATCCTCTGCTTCTATGGCCCCCTG
GCGTGGGTAAAGACCAGCATTGCTCGCTCCATCGCCCCGCGCCCTGAACCGAGAGTACTTCCGCTTCAGCGTCGGGG
GCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACCTACGTGGGCGCCATGCCCGGGGAAGATCATCCAGT
GTTTGAAGAAGACCAAGACGGAGAACCCCTGATCCTCATCGACGAGGTGGACAAGATCGGCGGAGGCTACCAGG
GGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAGCAGAATGCCAACTTCCTGGACCACTACCTGGACG
TGCCCGTGGACTTGTCCAAGGTGCTGTTTCATCTGCACGGCCAACGTACGGACACCATCCCCGAGCCGCTGCGAG
ACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCAGGAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGC
CCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCCAAGCTGTTCATCGGACGTGCTGACGCTGCTCATCA
AGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAGCAAGTGGAGAAGGTGTTACGGAAATCGGCCTACA
AGATTGTCAGCGGCGAGGCCGAGTCCGTGGAGGTGACGCCCAGAGAACCTGCAGGACTTCGTGGGGAAGCCCGTGT
TCACCGTGGAGCGCATGTATGACGTGACACCGCCCGGCGTGGTTCATGGGGCTGGCCTGGACCGCAATGGGAGGCT
CCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGACAAGGATGCCAAGGGTGACAAGGATGGCAGCCTGG
AGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCCCGCATAGCCTACACCTTCGCCAGAGCCTTCCTCA
TGCAGCACGCCCCCGCAATGACTACCTGGTGACCTCACACATCCACCTGCATGTGCCCCAGGGCGCCACCCCCA
AGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTGCTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGA
ATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATCCTGCCTGTTGGTGGCATCAAGGAGAAGACCATTG
CGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCCTGCCAGCCGAGAACAAGAAGGACTTCTACGACCTGGCAGCCT
TCATCACCGAGGGCCTGGAGGTGCACTTCGTGGAACACTACCGGGAGATCTTCGACATCGCCTTCCCGGACGAGC
AGGCAGAGGCGCTGGCCGTGGAACGGTGACGGCCACCCCGGGACTGCAGGCGGCGGATGTGAGGCCCTGTCTGGG
CCAGAACTGAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAGTGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGAC
CCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGCATAGAAGCTATTTAATGATTAAAGTCATTTCGAG

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FIGURE 5214

GGAGGGCTTAAGGAAGTAAATGCGCGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCGTCTTTGTGT
TTCAGAAGGATAAAGGACAAAAGTCCCCTGCAGAGCAAAAAAAGTTGTTCGGATTTCGGGAGAGGAGCCTCGGGGGG
AGGCTGAGGCCCCCACCATGGCACGGGTACCCCGAGTCAGCTGGCGAGCATGCCCTAGAACCTCCTGCCCTG
CTGGCGCCTCAGCCAGCACTCCTCCGCCTCCCGCTCCTGAAGCCCAGCTTCCTCCTTTTCCGCGAGAAGTGGCAG
GGAGGTTCAGCTGGCGGCTCCAGTCTTGAAGGCGGAGAAGATTCTGACAGAGAAGATGGAAATTACTGCCCTCCTG
TCAAGCGAGAAAGAACATCCTCTTTAACCCAGTTCCACCCCTCACAGTCAGAGGAAAGGAGCAGTGGCTTCCGGT
TGAAGCCACCAACGCTGATCCACGGCCAAGCCCCAGCGCAGGTCTGCCAAGCCAGAAGCCCAAGGAGCAGCAGC
GGAGCGTGCTTCGCCCCGCGAGTGTTACAAGCTCCGCAGCCAAAGGCGCTGTCCCAGACTGTCCCCAGCAGTGGCA
CCAACGGGGTTCAGCTCCCAGCAGACTGCACGGGGGCGAGTGGCCGCGAGCATCCCCTGACACTGCTGCATGGAGAA
GTCCTTCCGAAGCTGCCGATGAGGAGAAAGAGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCT
GTGAGAAAAAAGACCCCCGCCACACAGCAAGCCTTTGTATTTGGGCAGAACTTGAGGGACAGAGTTAAGCTGATAA
ATGAGAGCGTGGACGAAGCCGACATGGAGAATGCTGGACACCCAGCGCAGACACGCCAACCGCAACGAACTATT
TCCTCCAGTATATCAGTTCCAGTTTAGAGAACTCAACCAATAGTGCCGACGCCTCCAGCAACAAATTTGTATTTG
GCCAGAACATGAGCGAGCGAGTTTGTAGCCCCCAAATTAACGAGGTTCAGTTTCAGATGCCAACAGGGGAAAATG
CAGCTGCCGAGTCAGGGTCTGAGTCTCGTCCCAGGAGGCCACCCCTGAGAAAGGGTCCCTGGCTGAGTCCGGCAG
CCGCTACACCAAGGCAACAGCGCGGAAGTGTGTTGTTGGAAAAAGTGGAAAGTCATCACCGGGGAGGAGGCGGAGA
GCAATGTGTTACAGATGCAGTGCAAGCTGTTGTCTTTGACAAGACCTCACAGTCTGGGTGGAGAGAGGCGGGG
GGCTGCTCAGACTCAATGACATGGCGTCCACCGATGACGGCACACTACAGTCCCAGTACTGATGCGGACCCAGG
GGAGCCTGCGACTGATCCTCAACACCAAGCTGTGGGCCAGATGCAGATCGACAAGGCCAGCGAGAAGAGCATTC
GCATCACAGCCATGGACACCGAGGACCAGGGCGTGAAGGTCTTCCTGATCTCGGCCAGCTCCAAGGACACAGGTG
AGTTGTATGCAGCCCTGCACACCGCATCCTGGCCCTGCGCAGCCGCGTGGAGCAGGAGCAGGAGGCCAAGATGC
CCGCGCCTGAGCCTGGGGCAGCCCCATCCAACGAGGAGGACGACAGCGACGATGACGATGTCTGGCTCCTTCAG
GGGCCACCGCAGCTGGTGCTGGTGACGAAGGGGACGGGCAGACGACCGGGAGCACATAGCGGCCGGGAGCCCCGGC
TGCACACCAGGCTGCTGCTTTGTCCGTCTATCCACCCGCCACCCGCCCCACCCACCGGCAGCGTCCAGGTGC
GGGGCCGGGAACACACACCCCACTGGGCCGGCCACAGTCTGGACCCGCACGTCTGTTCAAAAGCAGACTCGGG
AACTGCCTGAATGTGGTTTGGGACACGAGACCTCATCATATTGATGAGCGAACAAACAAGAACATTTCTCCTCCTC
CCCTCCTTTGAATTGAAATGGCACATTAAGACTTGTACGGCTTCTCACTGGGACTGGAGACCTCGTTCCCTTCAC
CCGCGTGTTCGCCAGCCTCTGGGTCCAGCCAGAGCCCCCTGGCTTCTCCGCCACCCACACCTTCCCACCTGCTG
TGGGGCCCTGCCTTTGTGGGGAGCAGCCAGCCCTCTGCCCTGCCAGGGCTCCCCAACTATAGGCCTGGGACCC
CCGCCAGCTTGGGGGGCTGCTCGTACGAGTGTAGACACTGGGCCCATTTGGACGTGCTGTTAACTACTATCTTCA
TTTCCCACTTCCCCTCTCTGATTGGGGGTGTATATTTACATCTTTTTTTCTTTTTATTTTCGAAGGCTTTGTTT
TGGTTTCTTAGGTTAAGATGCTCTCGAGCGTTGAGCAGGCACAGCTCTGTGAGGTCCCTGTCCCCACCTGTGG
TTCTGGCCTCTGAGGTTGGGGGACTACTTGTTTCCACCCCAAGTTCCTCCAGGCCAAGTCATGGGGTGTATGAGG
AGTTGGGGCCCTGTCTGTCTAGGCCTGGAGAGTGCCTGTCTGGGAAAAGGTCACTGGACCTGGAAGGGTCCCCA
GGGTCCCCTGACTCCCGTCTCCATCTGTACGTGGTTACCATCATCAGGCACCAGGCGCAAAGTCTTCCCGCT
GTTGGCCATCCCTTCCCCAGCCACAGGTGTCCCTGCCCCCAGGACAGTCCAGGGCCAGGGGCTTCTGTGAGAGGC
AGAGGGGGACCCCTACCAAATCTTGGTGAAGAGCCCCAGGGGCTGGTCCCAGAACAGGCAGTCTACAAGCACGC
AGCACACTGGAGTGGACGCCTGTGCCCACCCGAGCCTGGAGCATGGCCAAGAGCCAGCTTGACCACCCACCTGG
GAGGCCGAGGAGGAGGTCCCCTGGGCACAGGGCCTCTTTGGGACTTCAGAGGAAATCTCCAGTCCCCTCTCGG
AGGGTTAAGAGAAGGCCTCCTGCAGCTGTGCCGTCCACACCTCTAGGTGCGCCAGAGCCCTGCCCCAGCCCCAG
CAAGCCTGAGCCCGGGAAGAACCAGAGGCCCTCCCAGAGACCCAGTCAACAGTCTCTGCTTTAAGCCTTAGCCA
GCTAGTGACGAGTACAACGAGATAACGCCCATGTGTTTTGGAACATTTATGTAAGATTGTCATATGAAATGTATT
TGGGAACATATAAATTTTAACTAAAAA

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FIGURE 5215

MADLANEEKPAIAPPVVFVQKDKGQKSPAEQKNLSDSGEPRGEAEAPHHGTGHPESAGEHALEPPAPAGASAST
PPPPAPEAQLPPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVKRERTSSLTQFPQSSEERSSSGFRLKPPTLI
HGQAPSAGLPSQKPKEQQRSVLRPAVLQAPQPKALSQTVPSSGTNGVSLPADCTGAVPAASPDTAAWRSPSEAAD
EEKEPQKNESNASEEEEACEKKDPATQQAFFVFGQNLDRVKLINESVDEADMENAGHP SADTPTATNYFLQYISS
SLENSTNSADASSNKFFVFGQNMSEVLSPPKLNEVSSDANRENAEAESGSESSQEATPEKGLAESAAAYTKAT
ARKCLLEKVEVITGEEAESNVLMQCKLFVFDKTSQSWVERGRGLRLNDMASDDGTLQSRVLMRTQGSLRLIL
NTKLWQMIDKASEKSIRITAMDTEDQGVKVFLISASSKDTGQLYAALHHRILALRSRVEQEAEAKMPAPEPGA
APSNEEDDSDDDDVLAPSGATAAGAGDEGDGQTTGST

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FIGURE 5216

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCTGGCCGGCGCCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCCGCTTTCCACCCGACCTCTGCCCAGGCCGCGAGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAGTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCCTGCCCCTGCAACGGCGTCAGTGAAGTCTCTGGGGGAAGTGAACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCCTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 5217

MSGGWMAQVGAWRTGALGLALLLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFQCRTSGLCVPLTWRC
RDLD CSDGSDEEEECRIE PCTQKGQC P P P PGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAAVLSASLV TATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 5218A

CCTCGCTCAAGGAGCACCCCCGGGGCACCCTCCTGTCCGATGGCAGCCCCGGCCCTGTCCAGGAATGTCGGTATGA
CGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCCCGGCTGGCCCTGGGACGCAACTCGGACCAATCACAG
GAGAGATGGATGAAGCCGATTCTGCGTTTTTTAAAATTTAAGCAGACAGCTGATGACTCTCTGTCCCTTACATCTC
CAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCGCCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACG
AGTTTGAAGCTGAGTCTTGAGCCTCGCCGTGGATGCAGCCTACGCCAAGAAGCAAAAAGAGGGAGGTGGTGAAAA
GACAAGATGTCTTTATGAGCTGATGCAGACAGAGGTGCACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGT
ACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTCAGCAGCAAGGCCATTGGCCGCTCTTCCCATGCGCTGACGACC
TGCTGGAGACGCACAGCCACTTCTCGCTCGGCTCAAGGAGCGCCGCCAGGAGTCCCTGGAGGAGGGCAGTGACC
GGAATTATGTCATCCAGAAAATCGGCGACCTCCTGGTTCAGCAGTTTTTCAGGTGAAAAATGGGGAGAGAATGAAAG
AAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTGTTAGTCATTACAAGTTGCTGCTTCAGCAAAACAAGA
AATTTCAAAACTTGATCAAGAAAATTGGCAACTTCTCCATCGTGCAGCGGCTTGCCGTGCAGGAGTGCAATTCTCC
TGGTTACACAACGCATAACCAAATACCCAGTGCTGGTGGAGCGCATCATCCAGAACACGGAAGCTGGCACTGAGG
ACTATGAAGACCTGACCCAGGCCTTGAACCTCATCAAGATATCATCTCACAAGTGACGCCAAGGTGAGTGAGT
GTGAGAAGGGCCAGCGCTCAGGGAGATCGCAGGGAAGATGGACCTGAAGTCTTCCAGCAAACTCAAGAACGGGC
TCACCTTCCGCAAGGAAGACATGCTTCAGCGGCAGCTCCACCTGGAGGGCATGCTATGCTGGAAGACCACATCAG
GGCGCTTGAAAAGATATCCTGGCTATCCTGCTGACCGACGTACTTTTGCTGCTACAAGAAAAAGATCAGAAATACG
TCTTTGCTTCTGTGGACTCAAAGCCACCCGTATCTCGTTACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGG
AGAAAAGCGATGTTTCTGATCAGCGCCTCCTTGCAAGGGCCGGAGATGTATGAAATCTACACGAGCTCCAAAGAGG
ACAGGAACGCTGGATGGCCACATCCAAAGGGCTGTGGAGAGCTGCCCTGACGAGGAGGAGGGGCCCTTCAGCC
TGCCCCAAGAGGAAAGGAAGGTGGTCGAGGCCCGGCCACGAGACTCCGGGACTTTCAGAGCGGTTGAGCATGA
AAGACCAGCTGATCGCACAGAGCCTCCTAGAGAAACAGCAGATCTACCTGGAGATGGCCGAGATGGGCGGCCTCG
AAGACCTGCCCCAGCCCCGAGGCCTATTCCGTGGAGGGGACCCATCCGAGACCTGCAGGGGGAGCTAATTCTCA
AGTCGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGATCTGCAGGCAGCTGGGCAGCGCCAACGGCCAGGCGG
AAGACGGAGGCAGTCCACAGGCCCGCCAGGAGGGCTGAGACCTTCGCGGGCTACGACTGCACAAACAGCCCCA
CCAAGAATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTGACCCAGGCCCGGAGACTGGCGAGGGCCCCCAAACA
GCCCCGACTTGAAGCTCAGTGACAGTGACATTCTGGGAGCTCTGAGGAATCGCCGAGGTGGTGGAGGCGCCAG
GCACGGAATCCGATCCCCGTCTGCCACCGTCTGGAGTGGAGCTTGTCCAGCGGATCCAGACACTGTCCAGC
TGCTCCTGAACCTTCAGGCGGTAATCGCCACACAGGACAGCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGC
GGGAGAAGCAGTTCGGCTGCAGTCGACGCGTGGGAACCTGCTGCTGGAGCAGGAGCGGCAACGCAACTTCGAGA
AGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGAGCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCG
AGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGGGGCGCGCGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCAGC
TACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGCGCCAGCGCCAGGCCTACCAGCACGACCTGGAGCGGC
TGCGCGAGGGCCAGCGTGCCGTGGAGCGGAGCGGGAGCGCCTGGAGCTGCTGCGCCGCTCAAGAAGCAGAACA
CCGCGCCAGGCGCGCTGCCGCCGACACACTGGCCGAGGCCAGCCCCCAAGCCACCCTCCAGCTTCAACGGGG
AAGGGCTGGAGGGCCCTCGTGTGAGCATGCTGCCATCCGGCGTGGGGCCAGAGTACGCAGAGCGCCCCGAGGTGG
CTCGCCGGGACAGCGCCCCACCGAGAACC GGCTGGCCAAGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCA
ACAGTTCCAGAGGCAGGCGGCCGTGCAGCAGCAGATCCCCACCAAGCTGGCGGCCTCCACCAAGGTGGCAAGG
ACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGAGCTCAGCGTCTTCGACCTGAAGCAGCAGCTGTGTC
TCAACAAGCTCATGGGGAAAGATGAGAGCACCTACGGAACCGCCGCTCGCTGAGCCCTATCTGCCCGGCAGAC
ACAGTCTGCGCCCCCACCAGACCCTGGCTTCCCCGCCCCGAGCCACCGCCAGCTGACAGCCCCCTCCGAGGGCT
TCTCTCTCAAGGCCGGGGGCACAGCCCTCCTGCCCGGGCCCCAGCTCCCTCGCCACTGCCGGCCACACCACTCA
GCGCCAAGGAGGACGCCAGCAAAGAAGACGTATCTTCTTCTAAAAGGGCCGTGACTCAAGGAAAGTTTTTAATG
GAAAGTTGAGCCAGAATAAACCAGGGAGCTGTCTGAAATCATAGCACCCCATCCGGGTGGCGGGGAGATCAACT
CCGAGCTGTTTTTCCGAGGCAGTGAGGAACGGTGCCGGCTCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTT
GAGAAGGAGCTGCCGGCCGGGGCCACGCTCCACAGCCGCCGCGCGACAGTGGAGCCAAGGGTTAGGGCACCAGGA
GGGGCCAGGTGGCGTCGGCAGCATCTGTCCCCAGAATCAGGCAGAATCCACTTCCCAAACAGAGCCCCACGCAGG
TTCACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCACGGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCC
ACTGAGGGAACATCAGTGGCCCTCCAGTCAGGTTCTGTGGGTTTGAAGCCCATCGTGAAAGGGGCTGACCTTTG

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FIGURE 5218B

CCCCTTTTTACTTGGCATTGGTTTTGAAACCAGCTGTTTTCCAAACTCTGCTTCCCAAGGGCAACCGTTGCTGTT
CACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTTCAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCC
TCAGCCCCCGGGAAATGAGCTCCCAGGGCTGGCGTCCCACCTTCAGGTGGGGGCTGGCACATCACAGACTGTCTG
AGAGCGCCATGTCCCAGGGCATGCAGAGGATGCACCTAGAGACGTTGCAGCAAGTGGACAAGTGGCCGCTGTGCG
GGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCCGTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCA
GCATCAAAGGTGCTGGGACATCCCAGGGTGGTGAGATCCATCCACGATCCAGCTCCGGTGGAGAAAGGGCCCATG
TCAAGCCTTGTTCTGCACCCCAAGCATTGGTGGTAGGACTGGGTCTGGCTGATCGTCCTTGTTCCCAGTGGGGT
ACATGTGAGCCCCTGCCAGGGCCAAGTCCTTCTCCCGAACCCAGGGTCTGGGAAGTGCAGATCCCGGGGGGATT
CAGCCCTTCTCCCACTGTGCTGGCAGAGGCACTCCTGTGACGCTGAATACAGTGAACAGGGACATTCCCGCCACT
CGGGGACAGATGGGCACAAGGGAGGGGAAACTCCATCAGGAAGTGCTCCCCTGGGCAGAGGCGCCCACTGGGTGC
TGTGGGCTCAGGAGGGGGCGGGGCAGGAGCTGGTGCCAACCGGAACAGAGCCCCACAGCCATACAGCCATTG
GTGACAAGGTCTTGAGAACACAGTGGCCAGGTGTCCCCAGGCTCCTGGCCCCCTCCGACGACCTCAACTCTGCCCA
GCCCCGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCGTCAGATCCCATGTGTGCCATGTTTATCATCAGTGTT
TTGTATTTTTTGTACTGAGTATCGGAGCACTTTACAGAAGCTGACTGTACATTCTGTTCTGTTGTGAAGAGAACA
TTCCCAGACCCTGGCACCCCTCCTGAGCCGGCGTGTGCCGGTCCAGCCCTCCGAGATGCCACAATTCCTTGGAATG
GGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGGGAACCCCGCGTCCCGCCATGTGGCAGAGGGGTCTC
AGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTTCCCTCGCCAGTGGCCCTCGGCCACTCCTGGGTGGA
GCCCGATTTTATTTGTAAAGTTGACAGTCGAGCAAATGTTCTATTTTCGTGGGATCTGCACACGTCTTTGTCAG
TTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTTACAATGATTACAACATTTCTCTACTGCGGGATATTTCT
GACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAACGTGTCCGAGATG

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FIGURE 5219

TCTCCTGTACCTGGGCATCCAGAAAAATGTTGGTGTATGGCGGACTCTCGCGGCCCGAGCGGCCGGACCTTGTCT
TCGAGGAAGAGGACCTCCCCTATGAGGAGGAAATCATGCGGAACCAATTCTCTGTCAAATGCTGGCTTCGCTACA
TCGAGTTCAAACAGGGCGCCCCGAAGCCCAGGCTCAATCAGCTATACGAGCGGGCACTCAAGCTGCTGCCCTGCA
GCTACAAACTCTGGTACCGATACCTGAAGGCGCGTCGGGCACAGGTGAAGCATCGCTGTGTGACCGACCCCTGCCT
ATGAAGATGTCAACAACTGTCATGAGAGGGCCTTTGTGTTTCATGCACAAGATGCCTCGTCTGTGGCTAGATTACT
GCCAGTTCCTCATGGACCAGGGGCGCGTCACACACACCCGCCGACCTTCGACCGTGCCCTCCGGGCACTGCCCA
TCACGCAGCACTCTCGAATTTGGCCCCTGTATCTGCGCTTCTGCGCTCACACCCACTGCCTGAGACAGCTGTGC
GAGGCTATCGGCGCTTCTCAAGCTGAGTCCTGAGAGTGCAGAGGAGTACATTGAGTACCTCAAGTCAAGTGACC
GGCTGGATGAGGCCGCCAGCGCTGGCCACCGTGGTGAACGACGAGCGTTTCGTGTCTAAGGCCGGCAAGTCCA
ACTACCAGCTGTGGCACGAGCTGTGCGACCTCATCTCCAGAAATCCGGACAAGGTACAGTCCCTCAATGTGGACG
CCATCATCCGCGGGGGCTCACCCGCTTACCCGACCAGCTGGGCAAGCTCTGGTGTCTCTCGCCGACTACTACA
TCCGCAGCGGCCATTTGAGAAGGCTCGGGACGTGTACGAGGAGGCCATCCGGACAGTGATGACCGTGCGGGACT
TCACACAGGTGTTTGACAGCTACGCCCAGTTCGAGGAGAGCATGATCGCTGCAAAGATGGAGACCGCCTCGGAGC
TGGGGCGCGAGGAGGAGGATGATGTGGACCTGGAGCTGCGCCTGGCCCCGCTTCGAGCAGCTCATCAGCCGGCGGC
CCCTGCTCCTCAACAGCGTCTTGCTGCGCCAAAACCCACACCACGTGCACGAGTGGCACAAGCGTGTGCCCCCTGC
ACCAGGGCCGCCCGGGAGATCATCAACACCTACACAGAGGCTGTGCAGACGGTGGACCCCTTCAAGGCCACAG
GCAAGCCCCACACTCTGTGGGTGGCGTTTGCCAAGTTTTATGAGGACAACGGACAGCTGGACGATGCCCGTGTCA
TCTTGGAGAAGGCCACCAAGGTGAACCTTCAAGCAGGTGGATGACCTGGCAAGCGTGTGGTGTCAAGTGCAGGAGC
TGGAGCTCCGACACGAGAAGTACGATGAGGCCTTGGCGCTGTGCGAAAGGCCACGGCGCTGCCCTGCCCGCCGGG
CCGAGTACTTTGATGGTTAGAGCCCGTGCAGAACCGCGTGTACAAGTCACTGAAGGTCTGGTCCATGCTCGCCG
ACCTGGAGGAGAGCCTCGGCACCTTCCAGTCCACCAAGGCCGTGTACGACCGCATCCTGGACCTGCGTATCGCAA
CACCCCAGATCGTCATCAACTATGCCATGTTCTTGGAGGAGCACAACTACTTCGAGGAGAGCTTCAAGGCGTACG
AGCGCGGCATCTCGTGTTCAAGTGGCCCAACGTGTCCGACATCTGGAGCACCTACCTGACCAAATTCATTGCC
GCTATGGGGGCCGCAAGCTGGAGCGGGCACGGGACCTGTTTGAACAGGCTCTGGACGGCTGCCCCCAAATATG
CCAAGACCTTGTAACCTGCTGTACGCACAGCTGGAGGAGGAGTGGGGCCTGGCCCGGCATGCCATGGCCGTGTACG
AGCGTGCCACCAGGGCCGTGGAGCCCGCCAGCAGTATGACATGTTCAACATCTACATCAAGCGGGCGGCCGAGA
TCTATGGGGTCACCCACACCCGCGCATCTACCAGAAGGCCATTGAGGTGCTGTGCGACGAGCACGCGCGTGAGA
TGTGCCTGCGGTTTGACAGATGGAGTGCAAGCTCGGGGAGATTGACCGCGCCCGGGCCATCTACAGCTTCTGCT
CCCAGATCTGTGACCCCGGACGACCGGCGCGTCTTGGCAGACGTGGAAGGACTTTGAGGTCCGGCATGGCAATG
AGGACACCATCAAGGAAATGCTGCGTATCCGGCGCAGCGTGCAGGCCACGTACAACACGCAGGTCAACTTCATGG
CCTCGCAGATGCTCAAGGTCTCGGGCAGTGCCACGGGACCGTGTCTGACCTGGCCCCCTGGGCAGAGTGGCATGG
ACGACATGAAGCTGCTGGAACAGCGGGCAGAGCAGCTGGCGGCTGAGGCGGAGCGTGACCAGCCCTTGCGCGCCC
AGAGCAAGATCCTGTTCTGTGAGGAGTGACGCTCCCGGGAGGAGCTGGCAGAGCTGGCACAGCAGGTCAACCCCG
AGGAGATCCAGCTGGGCGAGGACGAGGACGAGGACGAGATGGACCTGGAGCCCAACGAGGTTCGGCTGGAGCAGC
AGAGCGTGCCAGCCGAGTGTTTGGGAGCCTGAAGGAAGACTGACCCGTCCTCCCCCATCCCCCTCCCCACCC
CCTCCCCAATACAGCTACGTTTGTACATC

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FIGURE 5220

MVVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRYIEFKQGAPKPRLNQLYERALKLLPCSYKLWYRYL
KARRAQVKHRCVTDPAVEDVNNCHERAFVFMHKMPRLWLDYCQFLMDQGRVTHTRRTFDRLRALPITQHSRIWP
LYLRFLRSHPLPETAVRGYRRFLKLSPEAEYIEYLKSSDRLEAAQRLATVVNDERFVSKAGKSNYQLWHEL
DLISQNPDKVQSLNVDAIIRGGLTRFTDQLGKLWCSLADYYIRSGHFEKARDVYEEAIRTVM TVRDF TQVFDSYA
QFEESMIAAKMETASELGREEEDDVDELRLARFEQLISRRPLLLNSVLLRQNP HHVHEWHKRVALHQGRPREII
NTYTEAVQTVD PFKATGKPH TLWVAF AKFYEDNGQLDDARVILEKATKVNFKQVDDLASVWCQCGELELRHENYD
EALRLLRKATALPARRAEYFDGSEPVQNRVYKSLKVWSMLADLEESLGTFQSTKAVYDRILDLRIATPQIVINYA
MFLEEHKYFEESFKAYERGISLFWPNVSDI WSTYLTKFIARYGGRKLERARDLFEQALDGCPPKYAKTLYLLYA
QLEEEWGLARHAMAVYERATRAVEPAQQYDMFNIIYIKRAAEIYGVTHTRGYQKAIEVLSDEHAREMCLRFADME
CKLGEIDRARAIYSFCSQICDPRTTGAFWQ TWKDFEVRHGNE DTIKEMLRIRRSVQATYNTQVNF MASQMLKVSG
SATGTVSD LAPGQSGMDDMKLLEQRAEQLAEEAERDQPLRAQSKILFVRSDASREELAE LAQQVNPEEIQLGEDE
DEDEMDLEPNEVRLEQQSVPAAVFGSLKED

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FIGURE 5221

ATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATT
GAGCATGAAATGAAGAACGGGATCCCTGCCAATCGAATCGTCCTGGGAGGCTTTTCAAGGGCGGGGCCCTGTCC
CTCTACACGGCCCTCACCTGCCCCACCCGCTGGCTGGTATCGTAGCATCGAGCTGCTGGCTGCCTCTGCACCGG
GCCTTCCCCCAGGCAGCTAAAGGCAGTGGCAAGGGCCTGACCATCCTCCAGTGCCATGGGGAGCTGGACCCCATG
GTGCCCCGTACGGTTTGGGACCCTGACGGCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACTCGGGTGT
ATGCACAGCTGCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGGAGAAGTTGCTGCCTTCTGTCTAACT
AGTCGCTGGCCCCAGTGCGCCTCCAGGCCCCCAGCCTCTGGGAGAGGGGAGAGAGCTCCTCCTGCCAAGAACACC
AGCCCAGGCCCTGTTTCTAGCCCAGGGCGTGCCAGCGGGACCACCAGACACTTCCGGGCCTACCCAGGAACCCC
GTCCCCGGCCATGGCCCGTCGGTCCCGGGCTGCGGGCACCGAGGTGGGGCTCCCCCGGCCAGCTCCGAGTGCCCG
GCCACGGCCCCCGACAGAGGGCCCCCGGAAATCAGTGAGCAGCGCCTCGGAGCACAGTACCACCGAGCCAAGCCC
GGCTGCCAGGAGGCGGCCAGCGCCGCCCCGTTCTGGGCCCTCAGCCCGCGGAACACCCAGGGCTCCTGCGCATCC
CTCGCAGCCCAAGCCGAAAGGACTGCAGGCTCTGCGACCCCCCTCAGGTACACCCCCAAGGAAGGACGCAGCCCC
AGCACTAGGACCGCTTTCTTCTCTCCTTTGGCCACACCCCTCTCCATCGGGTACCAAGGCAAGACCCGTACCGCC
TCCCGACAATGCAGCCACTCCCCTGCCAGCCACGCTCCCTCCCTCTCCACCGCCACGCCCCCTCGCAAGTTCCA
CCCACACAGCTGATTATGTCTTTCCAGAAGCAGGCGTCTCTCCCTGGCCACAGCCGCTTTTGTGGCTTCAGTC
TCTCCATCAGTTTCATCCCCTCTGCAGAGACTCTCTCTTCTGGCCACATTGCCTCTGCAGGCCTCTCCCTCTCC
TTTGACCACAGTCTCTCTGCAGGATCCTCCTCTAGTTTCTCCCTCTCTTTTGGCCTCACCGCCTCTGCAGGCTCC
GCCCCACCCACAGGCCCCACCTTCTATGACTACGCCCCCTATGCAGGCCCCGCCCTCTCTCCAGACCATTCCCCC
AATACAGGTCCCACATTCTCTGACCTCACCGTCTCTGCAGGCACCTCCCTCTCCTCTGGCTTTGTCTCTCTGCA
GGCCACAACCTTTTGGGCTCACCCACTCTGCAGGCCACACATTCTTTCCTGACAATGTCCCCTAG

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FIGURE 5222

GTGCCCCCTGTCCCCCTGCTCTACCTCTCTGTCTTGTCTGGCTCTCCCGTCACCCTCCCTGCCTCTGTCTCTCT
TCTGGCCTGAGCCTGGGCCCAGCCACCTCCTGACCGGAGGGAATCGGTGACGGAGCGGGGCCAAGGGAGGGGTCC
GGAGGGAGTCAGGGATGGAGGGCAGAGGGAGTGGATGTGGGGGTTTGAGGACGTGTGACAAGCTCCAGCAGGGGT
GGGGGCCGGGCTGAGGGTGGGGGTGCGAGGTGGTCACTCCCATCGTGCCCTGGCCGTCCCTCCACTCACCCACA
CCTGGCCCAGTCCACGTTGAGGTCCAGGACTGGGAAGGACCGGGTGAGTGCACCGGGGACCCAGGCCAGGTGCCC
CCCGGAGCCTGCTGGGGTGGCCAGAGCAGGAGGGGGTGTGTTTCCTTTTTGTGGGTGTTGCATGCAAATCAAGTG
GACAAGAAAAAATAACAAAACAAAAACAAGAAAAAACAACAAAACCCCGTAAAATCACAAGAAAAATCCAA
CACCAAAGGCGCAGAAGCCGGCTGGCCGTGGTGGGGGCAGCGTAGGCGTAGCATCCCTCTCCTCTCACTTAGCCT
GTTGACTCTTGTATTATCATGATATTCACAAAACGCCGCATGTTTAAAAAGTCATAGATGTCATCTTCTCTCTG
CCCCCAGGGAGGAAAGCCACCTTCTCTTGCCCTTGCCCTTTGTCAGGGGCCAGGGGTCTGCCGGGTGGGGT
GCCAACAGGCCTGGCCCTTCTCTCCCTGCATCCAGCCATGGGGGCCTCTGCGATTGCCGGAAGGTTGCATGGCT
GGTCCCAGGGCCAGCACAGGCCCGAGGCCGGGCTGCCTGGTTTTATTTTTATTTAACTTTATTTTCTGTTTTATG
AGTGTGTGTCCGCCACCCCCACCCCCTTCAGTGTTAAGTGGGGAGCCCTGGGGGAGTCTCTCCTGCCTCCCAGC
CTCTCCCAAGACCTCCCCCTCGTCACCAGCCATCCCTCTGGACCAGGCAGAGGGCGGACCGGGTGGGCAGGGGC
CTGAGGGTGGCTCGGGCCAGCCACCAGCCAATGGACCCCTCCTCAGGCCGCCAGTGTGCCCCTGCCCTTTTTTA
AAACAAAATGCCCTCGTTTGTAACCCTTAGACGCTTGAGAATAAACCCCTTCCTTTTCTTCC

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FIGURE 5223

CGCCGCGAGAAGGTCACACGATTCTCCAACATGGCGGCGGGCGGCCCTGCGGAGTGGCTGGTGCCGCTGTCCACGG
AGATGCCTCGGCAGTGGAATCCAATTTCTTTCCAGCCACAACCTACCCCATGGGTCGACCTATCAGATGCGCCGG
CCGGGCGGAGAGCTGCCACTGTCCAAATCATATTCTTCTGGAAACAGAAAAGGCTTTCTGTCCGGCTTGCTAGAT
AATGTCAAACAAGAATTAGCCAAAAACAAAGAAATGAAAGAAAGTATAAAAAAATTCCGTGACGAGGCCAGAAGG
CTAGAAGAATCAGACGTGCTCCAGGAGGCCAGAAGGAAATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGC
GAGGTGCTACGGAAGAAGCTTGGGGAGCTGACGGGCACCGTGAAGGAGAGCCTTCACGAAGTCAGTAAAAGTGAT
CTCGGCCGGAATCAAGGAGGGCGTGGAGGAAGCAGCCAAGACGGCCAAGCAGTCGGCCGAGTCGGTATCCAAA
GGCGGGGAGAAGCTGGGCAGGACAGCGGCCCTTCAGAGCCCTCTCCAGGGGGTGGAGTCCGTGAAGAAGGAAATT
GACGACAGCGTCCTGGGACAGACCGGGCCCTACCGGAGGCCCCAGCGACTCCGGAAGAGAACGGAGTTTGCGGGA
GATAAGTTCAAGGAGGAGAAAGTGTTTGAGCCAAACGAGGAGGCCCTGGGGGTGCTGCTGCACAAGGACTCCAAG
TGGTACCAGCAGTGGAAGGACTTCAAGGAGAACAACGTGGTGTTTAACCGGTTCTTCGAGATGAAGATGAAGTAT
GACGAAAGCGACAACGCGTTTCATCCGGGCATCCCGGGCCCTTACGGACAAGGTCACCGACTTGCTGGGGGGCCTG
TTCTCCAAGACAGAGATGTCGGAGGTGCTCACGGAGATCCTCCGGGTGGACCCGGCCTTTGACAAGGACCGGTTT
CTGAAACAGTGCGAGAACGACATCATCCCCAATGTCCTGGAGGCCATGATTTCTGGAGAGCTTGACATTCTCAA
GACTGGTGCTATGAAGCTACTTACAGCCAGCTGGCCCCACCCATCCAGCAGGCCAAGGCACTGGGTCTCCAGTTC
CATTCTCGCATCCTAGACATTGACAACGTGACCTGGCCATGGGCAAGATGATGGAGCAGGGGCCGGTGCTGATC
ATCACCTTCCAGGCACAGCTGGTGATGGTGGTCAGGAACCCCAAGGCGAGGTGGTGGAGGGTGACCCGGACAAG
GTGCTGCGGATGCTGTACGTGTGGCGCTCTGCCGAGACCAGGACGAGCTCAACCCCTACGCGGCCTGGCGGCTC
CTGGACATCTCGGCCTCCAGCACCGAGCAGATTCTCTGAGTGTGGTGCCGGAGCCAGGTAGCCCCGGCCTGGGT
ATCAGGCACAGAGGCACCGCAACACCACCTGCGGCAACT

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FIGURE 5224

MAAAALRSGWCRCPRRCLGSGIQFLSSHNLPHGSTYQMRRPGGELPLSKSYSSGNRKGFLSGLLDNVKQELAKNK
EMKESIKKFRDEARRLEESDVLQEARRKYKTIESETVRTISEVLRKKLGELTGTVKESLHEVSKSDLGRKIKEGVE
EAAKTAKQSAESVSKGGEKLGRTAAFRALSQGVESVKKEIDDSVLGQTGPYRRPQRLRKRTAFAGDKFKEEKVFE
PNEEALGVVLHKDSKWYQQWKDFKENNVVFNRFFEMKMKYDESDNAFIRASRALTDKVTDLLGGLFSKTEMSEVL
TEILRVDPAFDKDRFLKQCENDIIPNVLEAMISGELDILKDWCEATYSQLAHP IQQAKALGLQFHSRILDIDNV
DLAMGKMMEQGPVLIITFQAQLVMVVRNPKGEVVEGDPDKVLRMLYVWALCRDQDELNPYAAWRLLDISASSTEQ
IL

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FIGURE 5225

CGCCGGCTCCGCCCCGTCGGGTGTTTGTGGTGGGGCTGCGGAGTCGCCGATCCCGCCGGAAGCGCCAGGACAAT
GGGGACCCGAGACGACGAGTACGACTACCTATTCAAAGTGGTGCTCATCGGGGACTCAGGCGTGGGCAAGAGCAA
CCTGCTGTCGCGCTTCACCCGCAACGAGTTCAACCTGGAGAGCAAGAGCACCATCGGCGTGGAGTTGCCACCCG
CAGCATCCAGGTGGACGGCAAGACCATCAAGGCGCAGATCTGGGACACCGCTGGCCAGGAGCGCTACCGCGCCAT
CACCTCCGCGTACTACCGTGGTGCAGTGGGCGCCCTGCTGGTGTACGACATCGCCAAGCACCTGACCTATGAGAA
CGTGGAGCGCTGGCTGAAGGAGCTGCGGGACCACGCAGACAGCAACATCGTCATCATGCTGGTGGGCAACAAGAG
TGACCTGCGCCACCTGCGGGCTGTGCCCCTGACGAGGCCCCGCGCCTTCGCAGAAAAGAACAACCTTGTCCCTTCAT
CGAGACCTCAGCCTTGGATTCCACTAACGTAGAGGAAGCATTCAAGAACATCCTCACAGAGATCTACCGCATCGT
GTCACAGAAACAGATCGCAGACCGCGCTGCCCACGACGAGTCCCCGGGGAACAACGTGGTGGACATCAGCGTGCC
GCCCACCACGGACGGACAGAAGCCCAACAAGCTGCAGTGCTGCCAGAACCTGTGACCCCTGCGCCTCCACCCAGC
GTGCGTGCACGTCTCCGCCCCGCCCCGCCACGGTATCCTCTGGCCCCCTCCCTGCTGTCCCTCTGTGGCCGGGCTC
GTTCCAGCCCTCCAGTGAGCTCTGCACGGCCGGGCGGGGCCCCAGGAAGGACAGGAGCCAGTGCTACCCCGTCC
TGCCCGGGGAAAAGCTAGAAGCCCCGGTTTGTCTGCACCCATGAAACTCGGGTCCCCACAGCGTCTTGGCGGGGTG
GGGAGGGCGGCAGGATGGACGGGGCTGGCCAGAGGCGAGGAGGACGGGCGGACGGCGCCGCTTCTCCCCCTTTTC
CTTGCCGACTCTAGGGAGCGATTGCCTCCCTCCCTCTGTGACCGGGTGGCCCAGCCAGCCCGTCTGTCCTCCACCC
AGAACCGTGCTCTGGGCCAAAGCCCGAAGAACCAGGCAGCGGGGGCCGGGGCAGGCGGACCCCCGGGCTCTCAG
CGCCCACCCGCTCTCCGCACACAGCAGCTCGCACAGGCCTCCACCTCTGCCTGTTGATTGATGCAGGGAGAAG
CCCGTCCCCCTCTCCCTCTCCCTCCCTCTCCTGCACGCAACGCGCCCTCTCGGCCCTCCCTGTCCCCCTC
CTCTGTCTCGTCTCCCCATCTGGTCTGGAACCTGTTTGCAAGTGAAGCAATATCTCCGTGTTTTGTATATACAAC
CGCTCTTGTAGCCTTTGGTTTTTGTAAATGTAGAGAAACACAGATTCTTTATACATTTGTAAGATTTACGCCAA
ACCCAGCTCTCGATCTCTTCTTCTCCCTGTGGCCCCCTGCGCTGTTGCCCCGTCCCGTCAACCCGCCCCGTTACT
GAAATGTATAATCTGACTTCCTGTACAGAAACCTGC

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FIGURE 5226

CGCGCCGGGAACAGCCAGTCGGTGCCTAACGCGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGCGGCGGGGGCGTGGCCCGGGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGGCGGGCGCAGGTGTT
ACTGGTTGCGTCGGGTACGTGGGCGCGCAGGCGCAGCGCGGTGCAGCCCGTTCGCTCACACAAAGCCCAGACGC
GGAGAAAATGGCGGCAGGGGTCTGAAGCGGCGGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGG
CGCGCCCGGCGTGCCGAGCGGCAACGGGGCTCCGGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAA
GAGGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAATAAAGATACAGAGC
CTTCATTACAAACATACCTTTTTGATGTGAAATGGCAGTCACTTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGT
AACATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGCTCTATAGTGTGTTGAATTCAAGATGGAAGA
GAGCATGAAAAAAGCTGCGGAAGTCTTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCC
TGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGCTGGAAGACTTGGAAGCACAGTATTTGTAGCAAATCTGGA
TTATAAAGTTGGCTGGAAGAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGA
AGATAAAGATGSAAGAAAGTCTGGAATAGGCAGTGTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATC
TATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCAGTCAAGATGGATGAGAGGGCCCTTACCAAAGGAGA
TTTCTTCCCTCTGAGCGTCCACAACAACCTTCCCCATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGG
GCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGGAATGGGAAAACATAGGTCCCGCAGGAATGGGAATGGA
AGGCATAGGATTTGGAATAAATAAAATGGGAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGAACATGGGTCTG
ATTTGGATCTGGGATGAACATGGGCAGGATAAATGAAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGC
AAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCCCTGGGATCGAGAGGATGGGTCTTGGCATTGACCGCCTCGG
GGGTGCCGGCATGGAGCGCATGGGCGCGGGCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCAT
GGGCTGGTTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCCGCTGGGCCT
CGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGG
TGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCGCTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGG
CTCTGGCGTGGAGCGCATGGGCCCTGCCATCGAGCGCATGGGCCTGAGCATGGAGCGCATGGTGCCCGCAGGTAT
GGGAGCTGGCCTGGAGCGCATGGGCCCCGTGATGGATCGCATGGCCACCGGCCTGGAGCGCATGGGCGCCAACAA
TCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCAACAGCCTCGAGCGCATGGGCCTGGAGCGCATGGGTGCCAA
CAGCCTCGAGCGCATGGGCCCCGCCATGGGCCCCGGCCCTGGGCGCTGGCATTGAGCGCATGGCCTGGCCATGGG
TGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCGAGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTT
CTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATT
CGATTTACATGGAAGATGCTAAAGGACAAATTCAACGAGTGCGGCCACGTGCTGTACGCCGACATCAAGATGGA
GAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGTTGAGTGCAGAGGTGGCCGAGAGAGCCTGCCGGATGAT
GAATGGCATGAAGCTGAGTGGCCGAGAGATTGACGTTTGAATTGATAGAAACGCTTAAGCAGTTGCCTTTTTTAA
ACATCGATACGAGACCTCTGAATTTGTATTTTTCTTGTAAACATTTTAATTTGTTGGCTGGATGTATAAAGAT
GTTTAAAAAATTCAGTTGCTTTTTGGGGTAATTTGAATTACTTTTTTAATGACTGGGGTTCCATTTGACTGTTT
CATTGAGATTGCAATGTGCGCAATTTTTTTGTAGTTGTGGCATCTTGTGACATCGAATATGACTTTGATAATA
AATACCGGTTCCCTG

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FIGURE 5227A

AGTGAAGCGGAAGCCATTACTCTCTGGAGTCGATTGCCCCGAGACACATGGGCCAAGGAGGGGTCAGCGGCGAAT
TCTTTCGGCCTGTTGGGGACCCCTCGTGTCCCCACGCCAGACTGGACCTCCCGTATGAACCTTCTCTTCGCATCGG
CGGCGGCTTCCGTACCTCCGCTCCCCGATCCTATTCCAGTCGTATGCCAGCTTGGAGAGTCACGTGAGAGCA
AGAGAGTAGCTTTCTGGTTGTCCTGGTGCCCTGCTCAGGCAAACCTGACTGCCATTCTCTGAGGATGGCAGCTCTG
TCCCCACATTTGCCACGTCCACCCAGGATTCCACCTGTCTCCAGGACTCAGAATTTCTGTTTTCTTCAAAGAC
CATTCCTGTCCCCAGAATTTGGACCTGTTTCGTGTGCAGTGGTCTGGAGCCTCACACACCCAGTGTGGTTCCAG
GAATCGGTGACTTTCCAAGATGTCTGTGGACTTTACCGAGAAGGAGTGGCCCTTGCTGGATTCTTCTCAGAGA
AACTGTACAAAGATGTAATGCTGGAGAACTACAGCAACCTCACTTCACTGGGGTATCAGGTGCGCAAACCCAGC
CTCATCTCACACTTGGAGCAGGAGGAGGAGCCGAGGACAGAGGAGAGGGGCGCTCACCAGGGCGCTTGTGCAGAT
TGGGAGACTCCATCTAAACCAAGTGGTCACTTCTTATGGAAGATATTTTGGGAAGGAAACGCCAGTGGTGTG
ACGATGGAAAGAGCCGGTCTTGGAGAGAAGTCCACTGAATACGCTCACTTGTTCGAAGTCTTTGGCATGGACCT
CATCTCACTCAGCCAATGGGAAGGCACGCTGGCAAGAGGCCCTATCACCGCCGCGACTATGGGGTAGCGTTCAAG
GGCAGGCCGCACCTCACTCAGCACATGAGCATGTACGACGGGAGAAAAATGCATGAATGTCATCAGTGCCAAAAA
GCCTTACCACGAGCGCGTCCCTCACACGGCACAGGAGAATCCACACCGGGGAGAAGCCTTACGAGTGCAGCGAC
TGCGGGAAAGCCTTCAACGACCCTTCAGCCCTTAGGAGCCACGCAAGAACTCACCTCAAAGAGAAGCCCTTTGAC
TGCAGTCAGTGTGGAATGCATTCCGGACCCTCTCGGCCCTGAAAATCCACATGCGAGTTCACACTGGCGAGAGG
CCTTACAAGTGTGATCAGTGCAGGAAGGCTTACGGCCGGAGCTGCCACCTCATCGCACACAAGAGAACGCACACC
GGAGAGAGGCCCTACGAGTGTACGACTGTGGGAAAGCTTCCAGCACCCCTCCACCTCAAAGAGCACGTGAGG
AATCACACGGGGGAGAAGCCCTACGCGTGCACGCAGTGCGGCAAAGCCTTCCGCTGGAAGTCCAACTTTAATTTG
CACAAGAAGAACCACATGGTGGAGAAGACCTACGAATGTAAAGAATGCGGGAAATCCTTTGGCGATCTCGTGTCC
CGGAGGAAACACATGAGGATTCACATCGTCAAGAAAACCCGTGGAATGTCGGCAGTGCGGGAAGACCTTCCGAAAC
CAGTCCATCCTTAAGACTCACATGAACCTCTCACACTGGAGAGAAACCATACGGGTGCGATCTCTGCGGGAAAGCT
TTCAGCGCGAGTTCAAACCTCACCGCACACAGGAAGATACACACGCAAGAGAGACGCTACGAATGCGCCGCCCTGC
GGGAAAGTCTTCGGTGACTATTTATCCCGCGGAGGCACATGAGCGTTACCTTGTAAGAAACGAGTTGAGTGT
AGGCAGTGTGGCAAGGCCTTCAGGAACCAGTCAACGCTGAAGACGCACATGCGAAGCCACACGGGGGAGAAACCG
TACGAATGCGATCACTGTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCGGG
GAGAAGCCCTACGAATGCCTTGTCTGCGGGAAAGCCTTCAGCGACCCTCATCCCTCAGGAGCCACGTGAAAAC
CACCAGGGGAGAGAAGCTCTTTGTGTATCCGTGTGGAAAAGGCTCCAGTGAAGCGCGCTGCTTTAGAGACACAGG
ATGATTACAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAA
GAATCCACGGAACCTTGGGAGAAGTCCAGTTCCTGTAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGT
TTGTGAGAAGTACGCGCGGGGGTGAAGATGTACGTCTGTAGCATGGAGAAGCCTTCAGGTACATTACAGCTCTTA
ACAAACACAGGAGGACTTAATGGCAGCTTGGCATTAAATGTCAAAATCCAAGCCGTGGCATTAAATGTCAAAATG
ACTTCAGACCACTTCTAGCCTTCTGGGCCCATGAGTAATAATGAGCACACTAGGGAGCATCTCTGTAAACACAGT
GGCTGGGGAAACCCCTTCTAGTCTCACTTGATTCTCATGACGGAATCACACTAAAGAGAGAAATCAGTGAAAT
AAGGAACGTGGAAGGTATGAATGGGCCGCAAACACGGCCAGCTGCTTGTCTTTGTATGGCTTGCCAGCTAACA
ATAGTGGTTCCATCTTTAAGGAAGAAGAATGTTTGATGGAGAAAATTTGTGGCCAATGAAGTCTGAAATACTTCC
TGTCATCTGCCCCCTTCCAGAAAACTTGGCCGACCCCTGGTCTACAGCACGGGTCTCTAGTCGGGCGACGATTT
GGCTGTCTAGGCGTCATTTGGCAATGTCTAGAGACATTTTGGTAGTTAGAATGGGGGGAAGATACTCCTGACTT
GTAATAAGAAGACATCAGAGATGCTGCTAAGTCGGCTCCAGCACACAGGAGCCCCCACAACGAAGAGTTAGTGC
CCCCAAACGTCACTGTTGCTGAGGTTGAAAATAATCATGCAGTCATTCTCAATTACTGCCTGCAGCAATTCCTC
CATTTTTATGAATCTTGTGAGCACTTACGCTAGGAGAAAATTTCTTTTACAAAACCTTTTAAATAACAATTAGTGCT
GATAATTCCTATGTGGAATGATTCCAGCCATGGTCCCCCTCACTTGAGCATGTGAATATTCTCACGGAGAGAAGC
CCCAGCGAGATTTTCCGGTGAATACGGGATTGCACTTACTCTTTCATCACGGAACAGACCCCCCGAGAGAAGCC
CCAACGAGATTTTCCGGTGAATACGGGACTGCACGTAATCTCTCATCATGAAAACAGAGCCCCGTTCAATAATTT
TTCATCTTTATTTTAAAGGTTATACTCCTCTAAATAACCCCTTAAGCCTCATCAAGAAAGGTTTGTATATAGTATT
TTTACTATAGCTTCATCCTTGATAACGTCCCTAATTTCTTCTGGACAACCTCCTTGACCAATGGCATATTGAGAT
CTATGTGACATGAGGATATTTCTCAGTACCCTTTGTACTGGTACCTGATGCACACGGATTGCGACCAGAGCAT
GATGCCCTCCATCAAGTGGAATATGTTTGACGCTGTGTCCAGCCAAGAGTGACAGATACTTCTAGTGACTTCC

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FIGURE 5227B

CCGGTATCCACTCTCATCTTCTTCCAATATCAAGAGAATCCAGGTTCTGTCAGATTAGTAAGGTGTGCTAATCTA
AATTTTAAAAAATCTCTTACAGGTTTTCTTGCAGCTGGTACCATCCATGTCTCACAGCCCTGGCCACTGACAGAT
CAGCAGATGTCACCACATGGGCTTCTGAGAAAGCTCTTGAATGGGGATCGTTCTTAAACATGAATTCCCTCCCTGT
ATGTTTTGTTCTTTGCTTTACTTTTCACCTTGCAAAGAGATCCAGTACCTAGTATTGGAAGATCCACCTTAACGA
CCGTGCATATGAAAACCACAGTCTAAGGAAGTGACTGCAGAAAGCTCACAGCGACCCTGGCCTCCCCTGTGGCCT
CTTTGAGTGTCTGCAGCAGCCCTGGACTTCCAGACTTCTATCACATGAGAAAAAATAAACTGATTATTGGTTTA
AGCTGC

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FIGURE 5228

MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQDVAVDFTEKEWPLLD
SSQRKLYKDVMLENYSNLTS LGYQVGKPSLISHLEQEEEP RTEERGAHQGACADWETPSKTKWSLLMEDIFGKET
PSGVTMERAGLGEKSTEYAHLEFVFGMDPHLTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECH
QCQKAFTTSASLTRHRRRIHTGEKPYECSDCGKAFNDPSALRSHARTHLKEKPFDCSQCGNAFRTLSALKIHMRVH
TGERPYKCDQCGKAYGRSCHLIAHKRTHHTGERPYECHDCGKAFQHP SHLKEHVRNHTGEKPYACTQCGKA FRWKS
NFN LHKKNHMVEKTYECKEKGKSF GDLVSRKHMRIHIVKKPVECRQCGKTFRNQSILKTHMNSHTGEKPYGCDL
CGKAFSASSNLTAHRKIHTQERRYECAACGKVFGDYLSRRRHMSVHLVKKRVECRQCGKA FRNQSTLKT HMRSH
GEKPYECDHCGKA FSIGSNLNVHRRRIHTGEKPYECLVCGKA FSDHSSLRSHVKT HRGEKLFVSSVWKRLQ

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FIGURE 5229

GTGTGCAATGGCTGCACACAGCAGCTTCCTTGGTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA
CCTTGGAGACAGGCCCTTCCGATGGATGTTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC
ATGTGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC
ACCAAGCTGCAGAACAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCGCCAGAAG
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTGAAGACATGGTGGCTGAGAAGCGG
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA
TGAGGGCTTCCAATGTGCTGCCCCCCTATTAATACTCACCAATAAATTCTACTTCCTGTCCAAAAAAAAAAAA

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FIGURE 5230

CTAGGTCGCGGACGCCGGGCTAGGGGCGCGCTCATGTGGCGGCTCACGGTCCCGCGCGCGCTGCTGCTGCTGCTGCT
CTCAGGCCCTGGCCGGACAGACTCTCTTCCAGAAACCCAGAAAGAGGGCTGGCAGCTGTACACCTCAGCCCCAGGCCCC
TGACGGGAAAATGCATCTGCACGGCCGTGATCCCAGCGCAGAGTACCTGCTCTCGAGATGGCAGGAGTCGGGAGCT
GCGGCAACTGATGGAGAAGGTCCAGAACGCTCTCCAGTCCATGGAGGTCCCTTGAGTTGCGGACGTATCGCGACCT
CCAGTATGTACGCGGCATGGAGACCCTCATGCGGAGCCTGGATGCGCGGCCTCCGGGCAGCTGATGGGTCCCCTCTC
GGCCAAGAGCTTCCAGGAGCTGAAGGACAGGATGACGGAACCTGTTGCCCTTGAGCTCGGTCTTGAGCAGTACAA
GGCAGACACGCGGACCATTGTACGCTTGCGGGAGGAGGTGAGGAACTCTCTCCGGCAGTCTGGCGGCCATTACAGGA
GGAGATGGGTGCCCTACGGGTATGAGGACCTGCAGCAACGGGTGATGGCCCTGGAGGCCCGGCTCCACGCCCTGCGC
CCAGAAAGCTGGGCTGTGGGAAGCTGACCGGGGTGAGTAACCCCATCACCGTTCCGGGCCATGGGGTCCCCGCTTCGG
CTCCTGGATGACTGACACGATGGCCCCAGTGCGGATAGCCGGGTCTGGTACATGGCTATTACAAAGGCCG
CCGGGTCTTGAGTTCCGTACCCTGGGAGACTTCATCAAAGGCCAGAACTTTATCCAGCACCTGCTGCCCCAGCC
GTGGGCGGGCACGGGCCACGTGGTGTACAACGGCTCCCTGTTCTATAACAAGTACCAGAGCAACGTGGTGGTCAA
ATACCACTTCCGCTCGCGCTCTGTGCTGGTGCAGAGGAGCCTCCCGGCGCCGGTTACAACAACACCTTCCCCTA
CTCCTGGGGCGGCTTCTCCGACATGGACTTCATGGTGGACGAGAGCGGGCTCTGGGCTGTGTACACCACCAACCA
GAACGCGGGCAACATCGTGGTCAGCCGGCTGGACC CGCACACCCTCGAGGTATGCGGTCTTGAGACACCGGCTA
CCCCAAGCGCAGCGCTGGCGAGGGCTTCATGATCTGCGGTGTGCTCTACGTGACCAACTCCCACCTGGCTGGGGC
CAAGGTCTACTTCGCCTATTTTACCAACACGTCCAGTTACGAGTACACGGACGTGCCCTTCCACAACCAGTATTC
CCACATCTCGATGCTGGATTACAACCCCCGGGAGCGCGCCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTA
CAATGTACCCCTGTTTACGTCATCAGCACCTCTGGGGACCCCTGAGCCAATGCTGTGGCTCGGGCTGCTGCGCTG
GGGGGCTCCGGGGGCTGGGGGCCCTTTTCATTCTGCCCTGTGTCCCTCAAGGTGATCTCTCTGTCTCTGTCTCAG
CCCTTCTCCCCGCCCTTTTTGCTGGGCTTTTGTCTCTGCTCTATGATTTTCTGCTATTTTTTCAATTTCCCCTC
TTCTCCTTTATTGATCTCTGCTTTTAAATACACCACCTCTTTCTTTCTGCTTTTATGGAATGCTTTTTCTTTTT
ATGGCTCTGGTTCTCCAGTTCTTTCCGTCTCTGCCCTCTCTGTCTCTCTCTCTCTGCTTCCACCCCTCCCTC
CTTGCTTCCACCCATTCCCTCATCCCTCACTCCCAACCCCAACCCCAAGGAGTTGAGTGCATGGATCTGT
TTCTTTTTTTTATTTACACTTTTTCTTTCCGGTTTGCCGGAATAAACAGGACCTTTGACATTTGAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5677/6881
FIGURE 5231

MWPLTVPPPLLLLLCSGLAGQTLFQNP EEGWQLYTSAQAPDGKCICTAVIPAQSTCSR DGRSREL RQLMEKVQNV
SQSMEVLELR TYRDLQYVRGMETLMRSLDARLRAADGSLSAKSFQELKDRMTELLPLSSVLEQYKADTRTIVRLR
EEVRNLSGSLAAIQEEMGAYGYEDLQQRVMALEARLHACAQKLGCGKLTGVSNPITVRAMGSRFGSWMTDTMAPS
ADSRVWYMDGYKGRRVLEFRTLGD FIKGNFIQHLLPQPWAGTGHVVYNGSLFY NKYQSNVVVKYHFRSRSVLV
QRS L PGAGYNNTFPY SWGGFSDMDFMVDESGLWAVYTTNQNAGNIVVSRLDPHTLEV MRSDTGYPKRSAGEAFM
ICGVLYVTNSHLAGAKVYFAYFTNTSSYEYTDVPFHNQYSHISMLDYNPRERALYTWNNGHQVLYNVTLFHVIST
SGDP

5678/6881
FIGURE 5232

AGGAGGCCTCGTGGAGGACACAGCAGCAATGGGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCGCGCCCAG
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACCCGCACTCGTTTCGTGTTACGCGAGGCTGCACGGGTTCGC
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTCATGGAGCCGCTCACTGCCAGCCGTCTGCAGGTTTCGTAAG
AAGAACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCCTCGGGGTACACACTTTCTGATCCTGAGCAAAACA
GAGACCAATGTCTACTTTAAGCTGATGCGCCTCCCAGGAGGCCCCACCTTGACCTTCCAGGTGAAGAAGTACTCG
CTGGTGCCTGATGTGGTCTCCTCACTGCGCCGGCACCGCATGCACGAGCAGCAGTTTGCCACCCACCCCTCCTG
GTACTCAACAGCTTTGGCCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCTCC
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTACAACCCCGACTCCCAGGAG
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG
AAGTTCCTCAACATGAGCCGCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTCTGGAGAGCGAG
GCAGAGCCTGACGGCGACCACAACATCACAGAGCTGCCTCAGGCTGTCGCTGGCCGTGGCAACATGCGGGCCCCAG
CAGAGTGCAGTGC GGCTCACCGAGATCGGCCCCGGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCGGG
GAGGGCAAAGTGATGTTCCACAGTTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCAGGCCAGGAATGTGCAGCGCAAGCAGGAGCAGCGGGAG
GCCACAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTGCGGGGTAGTGATGAAGAGGCCTCTGGGATC
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC
CAGGCGGTGGGCGAGGCGCCAGTGAGGACCTGTTCCCCGAGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTGCGCTTTGTGACCAGAAGTTTCCCAAGACCAAGGAC
AAGTCCCAGGGAGCCAGGCCAGGCGGGGGCCAGAGGGGCTTCCCGGGATGGTGGGCGAGGCGGGGGCCGGGGC
CGCCAGGGAAGAGAGTGGCCTTCAGCCCCAAGCCGCACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC
CGAGATGTGGCCCTCGGTTTCCTTTCATAAAGGAGTTGTGTCCCCAGCCCTTCCACTCCAGTAAAGAACTGAATT
GGC

5679/6881
FIGURE 5233

MGQSGRSRHHQKRARAQAQLRNLEAYAANPHSFVFTRGCTGRNIRQLSLDVRRVMEPLTASRLQVRKKNSLKDCVA
VAGPLGVTHFLILSKTETNVYFKLMRLPGGPTLTFFQVKKYSLV RDVVSSLRRHRMHEQQFAHPPLVLNSFGPHG
MHVKLMATMFQNLFP SINVKVNLNTIKRCLLIDYNPDSQELDFRHSIKVVPVGASRGMKKLLQEKFPNMSRLQ
DISELLATGAGLSESEAEPDGDHNITELPQAVAGRGNMRAQQSAVRLTEIGPRMTLQLIKVQEGVGEGKVMFHSF
VSKTEELQAILEAKEKKLRLKAQRQAQQAQNVQRKQEQREHRKKSLEGMKKARVGGSDDEEASGIPSR TASLEL
GEDDDEQEDDDIEYFCQAVGEAPSEDLFPEAKQRLAKSPGRKRKRWEMDRGRGRLCDQKFPKTKDKSQAQARR
GPRGASRDGGRGRGRGRPGKRVA

5680/6881
FIGURE 5234

CTTTTGGCATGCTACTGGGGACTTTGATTCTGAAGCCAGTTGGGCCGACCAGGTGGAGGAGGAGGGGGAGGAC
GACAAATGTGTACCAGCGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA
CTGCCGGGAGCTCCACTGCCGCCTCCCAAGGAGGTCATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTCGCA
AGGAGGAAGAAGTGAAGAAGTTCGGGAAGTCTCAGAGTTTGACCCCCCGGACCCAATGTGGCCACCACCCTGTC
AGTGACGATGTCTCTATGACGTTTCATCACCAGCAAAGAGGACCTGAACTGCCAGGAGGAGGAGGACCCTATGAAC
AACTCAAGGGCCAGAAGATCGTGTCTGCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCCCTACAAG
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC
AGCCGCCGCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTCACCAACTTGTCA
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTTCGGCCTTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG
GACAAGACCACTGGCCAATCCAAGGGCTTCGCCTTCATCAGCTTCCACCGCCGCGAGGATCGTGCGCGTGCCATT
GCCGGGTGTCCGGCTTTGGCTACGACCACCTCATCCTCAACGTCGAGTGGGCCAAGCCGTCCACCAACTAAGCC
AGCTGCCACCGTGTACTCGGTCCGGGACCCTTGGCGACAGAAGACAGCCTCCGAGAGCGCGGGCTCCAAGGGCAA
TAAAGCAGCTCCACTCTCAA

5681/6881
FIGURE 5235

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDTSPPELLEPGAPLPPPKEVINGNIKTVTEYKIDED
GKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQEEEDPMNKLK
GQKIVSCRICKGDHWTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQATQNKTGKYVPPSLRDGASRR
GESMQPNRRADDNATIRVTNLS EDTRETDLQELFRPFGSISRIYLAKDKTTGQSKGFAFISFHRREDRARAIAGV
SGFGYDHLILNVEWAKPSTN

5682/6881
FIGURE 5236

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTCGGACCCCCCTCCATCTTCGGTTTTTGACACCCCGCTTCCAGCGCGGAGT
CGCGGCGGGTAGGGCGGCGTCGCGTGCGTGACGTCATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCCTTGACCTC
CCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCTGA
CAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGCGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGGG
TCTCCCGGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCTGA
GTCTTTGCGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCCAG
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGGCGGTGGCCGGAAGCCTTGCCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC
CCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCCACCGTCGC
CTTCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCGA
CTTCCCCGACCCCTACCCACGCTACCCAGGGCCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTCT
TCTGAGCCAGGCCGAGCCCCTGGCCGACTTGGGAGCCTCAGGCCCACGCCACCCTTTCGAGGAAGGTGTCACCTG
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA
AAGCCCAGACGGGCTTCTGCATCCATTCCCTCTTTTGTGTTTTTAAATAAATTGTATTTTTG

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FIGURE 5237

GGCACGAGGCCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCCGGGTGGAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAAGTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGGTCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTGTGACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCTATGTGCCCTTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCTCTACTTGCCTGCTCGGCCAGCCTGGGGGGCCCGCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCCATTCAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTACCAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTCTGCTGTCTGTGTCTTCTATTGGCAAACAGCAAT
GATCTTCCAATAAAAAGATTTCAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5238

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRCRECKRKVAECQRKLKELEVAE
GGKAELERLQAEAAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTLSDGFSKSMVNTKPEKTEEDSEEVREQKHKT
FVEKYEQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTIVMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKD
VSV

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FIGURE 5239

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT
GCCAGAGGTGGTGGTGTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCCTAGCGGGGCTGGGGCCTG
CTGCCGATTCTGCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG
CAAGGCGGAGGTGACGCCCTCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTCACTGCAGGTCAAGTACCAGGATGC
ACCGGCCGCCCAGTTTCATGGCCCAAGGTGGTGTGCTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTACCAA
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTCATGGAGCGCCTCATTGA
ATTGCGCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCTCCACGTCATGAACGGTGCTGTATGTACCA
GATCGACAGCGTTGTCCGTGCCGTGCAGTGACTTCTGGTGCAGCAGCTGGACCCAGCAATGCCATCGGCATCGC
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCATTTTGGGGA
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCACTGCCAACTGGTGACCCTCATCAGCCGGGACGACCTGAA
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGTTCTA
CGTCCAGGCGCTGCTGCGGGCCGTGCGCTGCCACTCGTTGACGCCGAACCTTCTGAGATGCAGCTGCAGAAGTG
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCTGCACAAGCC
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCGCCTGATCTACACCGCGGGCGGCTACTTCCGACAGTC
GCTCAGCTACCTGGAGGCTTACAACCCAGTGACGGCACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCGCGGAG
CGGCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACCTGCCCCGACGGCAACAC
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTCCGCTGCGCCCTGCGCCCCCATGAGCGTGCCCCG
TAACGCATCGGGGTGGGGGTTCATCGATGGCCACATCTATGCCGTGCGCGGCTCCCACGGCTGCATCCACCACAA
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCCAATGCTGACACGAAGGATCGGGGT
GGGCGTGGCTGTCTTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTCAGCTGA
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGCAGGCGTCTG
CGTCTGCACAACCTGTATCTATGCTGCTGGGGGCTATGATGGTCCAGGACAGCTGAACAGCGTGGAGCGCTACGA
TGTGGAAACAGAGACGTGGACTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA
GGGGAGAATCTACGTCTTGGAGGCTATGATGGTCACACGTTCTTGGACAGTGTGGAGTGTACGACCCAGATAC
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTACCATGGAGCCCTG
CCGGAAGCAGATTGACCAGCAGAACTGTACCTGTTGAGGCACTTTTGTCTTGGGCAAAAATACAGTCCAATGG
GGAGTATCATTGTTTTTGTACAAAAACCGGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA
GGGAGGCCAGGATGCCTCAGTGTTAAAATGACATCTCAAAGAAGTCCAAAGCGGGAATCATGTGCCCTTCAGCG
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGGTGTGGAAAGAGCAGGCTTCCAGGAGAGAGGCC
CCAAACCTCTGGCCGGGTAATAGGCCTGGGTCCCACTCACCCATGCCGGCAGCTGTACCATGTGATTTATTCT
TGGATACCTGGGAGGGGGCCAATGGGGGCTCAGGGGAGGGCCCCCTCTGGAAATGTGGTTCCAGGGATGGGCC
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGATGGACAGTTATTTTGTGATAAGTAACCCCTGTAATTT
TCCAAGGAAAATAAAGAACAGACTAACTAGTGTCTTTC

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FIGURE 5240

TTTTACAAAACGCTCTCCTTGTTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGGAGAAGCAGAAGAAAGTGCGGCCCCATGTACCTG
AAGGACTACGAGAGGAAGGTTATCTTGGAGAAGGCAGGCAAATATGTTGATGAGGAGAACTCAGACGGGGAGACT
TCCAATCACAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGCTGCAGAAACGTGCCAAA
ACCAGGCAGGAGAAGGCCCAGGAGGAGGCCGACTACATCGAGTGGCTGAAGGGACAGAAAGAGATTTCGGAACCCA
GATTCCCTGAAGGAACTGACGCATCTCAAGGAATACTGGAACGACCCTGAGTTGGATGAAGGGGAGCGGTTCCCTG
CGGGATTACATCCTCAACAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG
GAGGGGGTCCACGGTCCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGGACTCAGCATCGGTCAAGACCTACCCACGC
AGCATCGCGTCTCCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAGAGGGAAGAGACTCGGGAGCGAAAAGAG
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCCT
GCCCAGCACGACCAGCTCATGCAGAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAACCTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCCAGCCAGCCGAGGAAG
AAAAAGCGCGAGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG
CCCGTGTTTGAACCCGGGGACAAGACGTTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC
ATCGACGACCTGCCCTGTGCTTCAAGTACCGCACAGTGGTGCCCTGTGACTTTGGCCTCAGCACTGAGGAGATC
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTGAGAGCAGGAG
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCCAGAACTCATGGAAAAAGCGGCAGGTCTTCAAGTCACTC
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCACAGAGGCAG
CTGCCAGCCCTTGATGGCAGCTTGATSGGGCCGGAGAGTCCCCCAGCACAGGAAGAGGAAGCCCCTGTATCACCC
CACAAGAAGCCAGCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGGCCCCACTGTGATGCTTGGT
GGATGCGAGTTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC
CGGCAGCGGAGGAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGGAGCAGGCAGGGGCCTCAGGCTCCT
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC
AGGCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGTGAAAGGATCACTTGAGCCCAGGAATTGGAGACCAGC
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCCAGCTACTCAGGAGGCT
GGGGAAGGAAGATCACTTAAGGCCATGAGTTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG
GGCAACAAAGCAAGACCCTGTCTCTTG

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FIGURE 5241

GGCGCTTCCGCAGGAAGAAGGAAGCGGCGCCGCGCCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG
GCCGCCACCA**ATG**TCCGCGCTCGGCTGTCTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG
CTGGAGGAGGAGAGCATCCGGGACAACCTTTGTTCATCGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC
CCGAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA
CGGGTGCCACCCACTGTCACCAACGCTGTGTCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC
ATTGATGTCATAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGTACC
ATCAAGCTCAAGGTGTTTCTGTTCAGGAATGCCAGAGCTGCGGCTGGGCCTCAATGACCGCGTGCTCTTCGAGCTC
ACTGGCCGCAGCAAGAACAAATCAGTAGAGCTGGAGGATGTAAAATTCCACCAGTGCGTGCGGCTCTCTCGCTTT
GACAACGACCGCACCATCTCCTTCATCCCGCTGATGGTGACTTTGAGCTCATGTCATACCGCCTCAGCACCCAG
GTCAAGCCACTGATCTGGATTGAGTCTGTTCATTGAGAAGTTCTCCACAGCCGCGTGAGATCATGGTCAAGGCC
AAGGGGCAGTTTAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCCTGTACCCAGCGATGCCGACTCC
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAAACGTCGTGATTTGGAGTATTAAGTCT
TTCCCGGGGGGCAAGGAGTACTTGATGCGAGCCCACTTTGGCCTCCCCAGTGTGGAAAAGGAAGAGGTGGAGGGC
CGGCCCCCATCGGGGTCAAGTTTGAGATCCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC
ATTGAGAAAAGTGGTTACCAGGCCCTGCCCTGGGTTGCTACATCACCAGAGTGGCGATTACCAACTTCGTACC
AGCT**TAGA**AGGGAGAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG
GCAGGTGCGGGCTGTGTGTGTCTGTGTGAGGGCAGGTCTGGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC
TTCCTCACCTCTTCCTTATTCCATAGGCTGGGAGAGAACTCTCTGCTTCCCTCGCCCTTGGAGCTTTCCCCATC
CCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCCCCCTCGCGAGTGCCTTCTTGCAATTACCTGCC
TTAGCGGGTGTGCGGGTCCCTCCTTCACAGCCGCTGAGCCAGAGGTCCCGCTGGCCCCCTCCTCTGAATTTTAG
GATGTCATTAAAAAGATGAATCTA

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FIGURE 5242

MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWIKHSNLYLVATTSKNA
NASLVYSFLYKTIEVFCEYFKELEESIRDNFVIVYELLDELMDFGFPQTDSKILQEYITQQSNKLETGKSRVP
PTVINAWSRSEGIKYKKNEVFIDVIESVNLLVNANGSVLLSEIVGTIKLVFLSGMPELRLGLNDRVLFELTGR
SKNKSVELEDVKFHQCVRLSRFDNDRTISFIPPDGDFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAKGQ
FKKQSVANGVEISVPVPSDADSPRFKTSVGS AKYVPERNVVIWSIKSFPGGKEYLMRAHFGLPSVEKEEVEGRPP
IGVKFEIPYFTVSGIQVRYMKIIEKSGYQALPWVRYITQSGDYQLRTS

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FIGURE 5243

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAACGCCACAGAAGTATGATCCCACCTTTCAAAGGACCC
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTCTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA
GGCATCATAGCCTGGACTCATGGAGACCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG
CAGAAGGGCACAACAAAACGAGAACAACCCTATCTGTTTTATTTCAACATTGTGAAATGTGCCAGCCCCCTGGTT
CTGCTGGAATTCCAATGTCCCACTCCCCAGATCTGCGTGGAAAAATGCCCCGACCGCTACCTCACGTACCTGAAT
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTCTGCTTCAAGAACAATAAAGGAGTGGCT
GAGGTGCTTCAAGATGGTGACTGCCCTGCTGTCTCATCCCCAGCAAAACCCTTGGCCCCGAGATGCTTCCCCGCT
ATCCACGCCTACAAGGGTGTCTGATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCGGAAAAAC
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCCTAGAGGCGCGGCAACTCGCCATGCGCATATTT
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTTCATC
ATCCTGCTTCGCTTCCCTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGGTGTGGGCTACGGA
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAGGCCGGCTCTGATGTCTCTTTGGTGGACCTCGGC
TTTCAGACGGATTTCGGGTGTACCTGCACTTACGGCAGACCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT
GAAGTCATTATCATCTTGCTGCTCATCTTTCTCCGGAAGAGAATTCTCATCGGATTGCACTCATCAAAGAAGCC
AGCAGGGCTGTGGGATACGTCATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTGCTGTGCCTCTGCATC
GCCTACTGGGCCAGCACTGCTGTCTTCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC
TGCCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCCCTCCTCCAATGAGTCCCGCCAATGCCCCAATGCC
CGTTGCCAGTTCGCCTTCTACGGTGGTGAGTCGGGCTACCACCGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC
TTCATGTTCTTCTGTTGGCCAACTTCGTGCTGGCGCTGGGCCAGGTACGCTGGCCGGGGCCCTTGCCTCCTAC
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGGCGCTCAGGTAC
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCCTGGCCATTGTGCAGATCATCCGTGTGATACTCGAGTACCTG
GATCAGCGGCTGAAAGCTGCAGAGAACAAGTTTGCCAAGTGCCTCATGACCTGTCTCAAATGCTGCTTCTGGTGC
CTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACC AATTTCTGCACC
TCGGCCAGGAATGCCTTCTTCTGCTCATGAGAAACATCATCAGAGTGGCTGTCTGGATAAAAGTTACTGACTTC
CTCTTCTGTTGGGCAAACTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTTCTTCTTCTTCACCCACCGTATC
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTTCTATACTGACGGTGATCGTTGGCTCCTAC
TTGATTGCACACGGTTTCTTACGCGTCTATGGCATGTGTGTGGACACGCTGTTTCTTCTGCTTCTTGGAGGACCTG
GAGAGGAATGACGGCTCGGCCGAGAGGCCCTTACTTCATGTCTTCCACCCTCAAGAACTCTTGAACAAGACCAAC
AAGAAGGCAGCGGAGTCCTGA

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FIGURE 5244

GACCGGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCCGGGGAGGTGCGGGAACACGTGACCGGCTGAAGCCCCGC
CCCCTTTGACGCCCGCTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAGAGATAAGGGGG
GGGCTGAGGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTGCGTGCGTAGTCACGTGACTTCGGCA
CCTTTCCCTCCGCTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTTTCGCGGTTTCCTTCGCCATCTGAC
AACTTTTGGCGCCTTCCCTTTGCCGTACTGGGAGTCCCTCCATCACGTGACGAGGGCAGCTCTGGTTTTTCGCTAA
GGCGTTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGCGGAGCCTCCCTACGGCTGCGACAT
TTTGCGCCTGCGCGGCCGCCATCTTACGCCCCTCGCCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGCTTTGA
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCGGGGATTTTCGGGCTCCAGTGAGGTTGGCTATGCTCACCC
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC
CCCTTGAGCCCCGGGACCGGCGCCAATGCGCGCCCCGGGTTCTTGGGTTCTTTTCGTCCCGCAGACCTGCCCTTGGTGT
GGCGTCCCTGGGCGGTAGCTTCCGAAGGCTGCAGCCGACCTGGTTCGGGGTCTCTAGCCCCGCTTCCCCCTCCCC
CATTGACAGATGGAGAACTGAGGCCCAGGCCAAAAAATATCTCACTAGAGGGCTCACCGCCATTTCTGGAAAA
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT
GCTTTGTCTTACAAGCGTGGTGTCTTGAATGCTTCCAGGCGCCTTATGAGGCCCCCGATGTACAATCTGTGCT
TAACTAAACCCCACTGTCTTCCAGGGTCAGGTTGGCCATCCGCAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT
CCGCTGTTGATTGACAGCTTCCAGGATTTGGAGCAAGAAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT
GTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTGAGGAGTTCGAGACCAGCCTGGCCAGCATG
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAATTAGCCGGGTGTGGTGGCACATGCCTGTAGTCCCACCTA
CTTGGGAGGCTGAGGCAGGAGAATTGTTTGACCTGGCAGGCGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCA
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC
TGGCTGGGCGTGGTGGCTCACGCTTGTAATCCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTCAG
GAGTTTGAGACCAGCCTGGCCAACATGGTGAACACCGTCTCCACTAAAAATAGAAAAATTAAGTGGGTGTGGTG
GAGGGCGCTGTAATCCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA
GTGAGCCGAGATTGCTCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAAA
AAAATTGCGCAGGTGTGGTGGTGTGCGCCTATAATCCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA
TCACTTGAACCTGGGAGGCAGAGGTTACAATGAGCCGAGATGGCACCCTGCACTCCAGCCTGGGCGACAGAGCG
AGACTCCGACTTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAGAGTGTAAGATGTGATTATGTGGCAGGGG
GTAAGGGTTAAAAAGAAAACAAGAACAAGTTTTCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAACACTG
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGGAGCAAAGTTGAAAAGAAAAATTCTTTACTG
TCTCTCTTTTCTGAACCATTAATATGACTGTTTGCCAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT
TACATGACCTGTGACTGTATCATTAAGTCTTTGTTTTGCTTCTGTAAGTTTGCCTATAAAAAACCACACTCAGT
CTTTGTTCAATGGTCAGCTTTTCAGATACAAATCCACTGAGCCGGTGTACATCTAAATAAATCCTCCTGTTTCCC
GT

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FIGURE 5245

MAPLHSSLGDRARLRLPILKKKKKKKKCKDVIMWQGVVRVKKKTRTSFPLLSQLTSRTVITLKSRGQRNGLQTAS
SGAKLKRKIPLLSLLF

5692/6881
FIGURE 5246

GTTAGAGCAGAGGAGGTCCCAGATACCAAGTGGCGCCTCCAGGAAAGGCTGGGAGAAGAGGTGGCCTGGAGTAC
CCCGAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCCCTAACCCCTGATTTTGATGGGATGTG
TTCATGTCCTATCTCCTCTCCTGGACACATTAAGGGGTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT
CGTGTTTAAGGAGAGAAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCTGGCCCCACCTGCTAAATACCT
CCAAACTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA
CGTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCCCCCTGCTGCAGATACATGCGGC
ACAGCAGGCACGTGCCTGGAGAGAACAGCTCCTGAGCACAGCACCTTGGAGCCCTCACCCCGCTCACGATCCTC
ACCAGTGCTGATGATGCCGTCATGCTGCTGGCCTGAGACAGTATCCCAGCTACAACAGGACGACACCGGGTTTCTAG
GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCCAGGCTAGTTGCCTTCCAAACGCAGGTAGCCGACC
TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT
ATGCTTTGGGTGGACGGTCTCCTACATGTTTCACTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC
ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAAGTGGGCA
CACGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG
TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGACAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTGG
GGCTTCATGAAGTAGGATGAAAGGAGGGCCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA
TTTAGTAGAGCTAGTAGGCCCTGGTCGTCACTCTGGGCAGGGATGCCGTCAGCCTTGAGGGTCGCCACCCACCTG
TGTGTTGCCCTCTGTCTGGCAGGGAAACATACACCCCTTGTCTCACCACCAACCTTGCTTGTGTAGTCAGCAGG
GCTGGCCCTGCCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTTCAGCATAGTTGGGAGCTT
CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATACAATGTT
GGGCAACAACCTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCATCCCAGAATAAATGGAGACTTCA
TGTGTT

5693/6881
FIGURE 5247A

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGGAGCAACGGCTACAGACGCCGC
GGGGCCAGGTCGTTGAGGGTCGGCGGGCGGGCGAGGAGCGCAGGGCGCTCGGGCCGGGGGCCCGGGCGCCATGGG
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCTTCAGCTCCATCGGGCCAGAGCTG
CCACCTGGACCTGCCGCAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAACTTCGT
GGGCGGGGACTTCCTTCCCCGCGGTTTCAGGAATCGTCACCCGGCGGCCTCTCATTCTGCAGCTCATCTTCTCAA
AACAGAACATGCCGAGTTTTTGCACGTGCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCCAGTGCCCATCAACCTTCGAGTCTACTCGCC
ACACGTGTTGAACTTGACCCTCATCGACCTCCCGGGTATCACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACAT
CGAGTACCAGATCAAGGACATGATCCTGCAGTTCATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTACGCCCCG
CAACATGGACCTGGCCAACTCCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG
TGTCATCACCAAGCTTGACCTGATGGACGAGGGCACCGACGCCAGGGACGTCTTGAGAGAACAAGTTGCTCCCGTT
GAGAAGAGGCTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT
GGCAGCTGAGAGGAAGTTCTTCTCTCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACCTACAGAG
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAAGTTTCGGCCCCGACGACCCCAACCGCAAAACCAA
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGA
CACTCTGGAGCTCTCCGGGGGCGCCCGAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT
GGAGTTTGACGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT
TTTCACCCCGGACTTGCCATTGAGGCCATTGTGAAAAGCAGGTTCGTCAGCTGAAAGAGCCCTGTCTGAAATG
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACCAGTAAGCTCAGTTCCTACCCCCGGTT
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT
GCTGATCGACATTGAGCAGTCCTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCCAGCAGAG
GAGCACGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGAGATCCTGGTGATCCGAGGGGGCTGGCTGAC
CATCAACAACATCAGCCTGATGAAAGGCGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCCGAGTCACTGTCTG
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA
GGGCTTCATGTCCAACAAGCAGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCA
GATCGAGCTGGCCTGTGACTCCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCTCCGAGCTGGCGTCTACCC
CGAGAAGGACCAGGCAGAAAACGAGGATGGGGCCAGGAGAACACCTTCTCCATGGACCCCCAACTGGAGCGGCA
GGTGGAGACCATTGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA
GACCATCATGCACCTCATGATCAACAATACGAAGGCCTTATCCACCACGAGCTGCTGGCCTACCTATACTCCTC
GGCAGACCAGAGCAGCCTCATGGAGGAGTCGGCTGACCAGGCACAGCGGCGGGACGACATGCTGCGCATGTACCA
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCCGCTGT
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATAACCC
CCCTGGCCGGCCCCCAGCAGTGAGGGGCCCCACTCCAGGGCCCCCCTGATTCTGTTCCTGGGGGCGAGCAGC
CTCCTTCTCGGCGCCCCCAATCCCATCCCGGCTTGGACCCAGAGCGTGTGTTGCCAACAGTGACCTCTTCCCAGC
CCCGCCTCAGATCCCATCTCGGCCAGTTCGGATCCCCCAGGGATTCCCCCAGGAGTGCCAGCAGAAGACCCCC
TGCTGCGCCAGCCGGCCCCACCATATCCGCCCAGCCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGGCGTG
CTCTCGGGGGGGCCTCACGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCCGCCCTATGCTGGG
ACCAGGCTCCCAGTGGGCAGCCCTGGCCTCTTCTTAACGCTGGCCCCGGTCCAGGGCCGGCCCCCTGTGCCTGGC
TGGACACCGCACTGCGCAAAGGGGGCCCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTGCACTTTGGGGGATGGA
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT
ACCAAGGTCTTCTTGGGCTGGGAAAGCCCATGTAGGGCAGGCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA
TCCCCAGGCCTTGCTGGGGTGCAGGGGTATATCAACTTCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC
AGTGGGCTCGGTAGTGCCAGCTGGCAGGCCTGAGGTGTACATAGTCCTTCCCGCCATATTAACCACACAGCCT
GAGCCTGGCCCAGCCTCGGCTGCCAGAGGTGCCCTTGTCTAGGCCCGGAGCCGTGGCCCCGGGCGGCCTTGCCCT
ATTCTCTCCTCCTCCTCCTCCTGGGTCCCCCAGGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGG
TCTTGGGGGCTCTCAGCTCCCGCCCATGCCCTCCCTGATGGGTGGGGCCAGGGCGGCCTCTCTCTGAGGAGACCT
CACCCACTCCTCGCTCAGTTTGACCACTGTAAGTGCCTGCACTCTGTATTCTATTAATAAACTAAATAAAGGGA

5694/6881
FIGURE 5247B

AGACGCTGCTGGTG

5696/6881
FIGURE 5249

MAAAAAVGPAGGAGSAVPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRAGPDSAGIALYSHE
DVCVFKCSVSRETECSRVGKQSFIIITLGCNSVLIQFATPNDFCSFYNILKTCRGHTLERSVFSERTEESSAVQYF
QFYGYLSQQQNMMDYVRTGTYQRAILQNHTDFKDKIVLDVGC GSGILSFFAAQAGARKIYAVEASTMAQHAEVL
VKSNNLTDRIVVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESYLHAKKYLKPSGNMFPTIGDVHLAPFTDE
QLYMEQFTKANFWYQPSFHGVDLSALRGAADVFRQPVVDTFDIRILMAKSVKYTVNFLEAKEGDLHRIEIPFK
FHMLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRCLFQSPLFAKAGDTLSGTCLLIANKRQSYDI
SIVAQVDQTGSKSSNLLDLKNPFFRYTGTPSPPPGSHYTSPSENMWNTGSTYNLSSGMAVAGMPTAYDLSSVIA
SGSSVGHNLIPLANTGIVNHTHSRMGSIMSTGIVQGSSGAQSGGGSTSAHYAVNSQFTMGGPAISMASPMSIP
TNTMHYGS

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FIGURE 5250

GGCACGAGGGGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGA
GCCCCAGCCACGCCGGCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCCCTGAACGACCATGGCATCGGCGGA
CGAGCTGACCTTCCATGAATTCGAGGAGGCCACTAATCTTCTGGCTGACACCCCAGATGCAGCCACCACCAGCAG
AAGCGATCAGCTGACCCACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGA
GGTGGAGGAGGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTT
CAGCTACTATCAGAGCTTCTTTGACGTGGACACCTCACAGGTCTGGACCGGATCAAAGGCTCACTGCTGCCCCG
GCCTGGCCACAACCTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCCTTCTGGATCTGTGCCAC
GTTGGCCTTTGTCTGGCCGTCAGTGGCAACCTGACGCTGGTGTGGCCAGAGGAGGGACCCCTCCATCCACTA
CAGCCCCCAGTTCCACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCTGGCCCT
GTGGGGCTTCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCTGGAGACTGTGTGCAT
CTACGGCTACTCCCTCTTTGTCTTCATCCCCATGGTGGTCTGTGGCTCATCCCTGTGCCCTGGCTGCAGTGGCT
CTTTGGGGCGCTGGCCCTGGGCCTGTGAGCCGCCGGGCTGGTATTACCCCTCTGGCCCGTGGTCCGTGAGGACAC
CAGGCTGGTGGCCACAGTGCTGCTGTCCGTGGTCTGCTGCTCCACGCCCTCCTGGCCATGGGCTGTAAGTTGTA
CTTCTTCCAGTCGCTGCCTCCGGAACGTTGGCTCCTCCTCCCAAATCACATCTCTGCCCTCAAACATCGCGCT
GTCCCTACCTTGCCGAGTCCCTGGCCCCCTCCTAGGAAGGCCCGGGTCCCACAGGCAACACCTAAGTGGACCA
ACCCCTCTGCCTGTCTGCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTC
CAGACTTTTCTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTGAGAGAATTTATATAAAGGCGGGCG
AGGGGCAGCCGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCCATATCCCCCGGGCCACCTGCTTCCCTCC
TATGGCTCCCTGGAACAGGAGGGAGAGCAAGGGGGCGGGCCAGCCTGGACAGCGCCCGCTCCTGCCTGGGTGC
ACACACGGCGGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAAAC
GCCTGTGCTGCAA

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FIGURE 5251

MASADELTFHEFEEATNLLADTPDAATTSRSDQLTPQGHVAVAVGSGGSYGAEDEVEEESDKAALLQEQQQQQQP
GFWTFSYYSFFDVDTSQVLDRIKGSLLPRPGHNFVRHHLRNRPDLYGPFWICATLAFVLAVTGNTLVLAQRRD
PSIHYSPOFHKVTIVAGISIIYCYAWLVPLALWGFLRWKGVQERMGPYTFLETVCIIYGYSLFVFIPMVVLWLIPVP
WLQWLF GALALGLSAAGLVFTLWPFVVREDTRLVATVLLSVVLLHALLAMGCKLYFFQSLFPENVAPPPQITSLP
SNIALSPTLPQSLAPS

5699/6881
FIGURE 5252

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCCAAGACGGAAGAGG
ATGGCCGCGGCGGGCTCTGAGGAGATTTTGGTCCCGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGGCGAAGCCG
GGAGTGTGGGCGCGGCTGGGGTCCCTGGGCCCCGCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG
GCGGAGGCTAGGGCCCCGGCCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGCGCGGCGGCCTGCTTCACG
CTGGGCGCCAGCGAGGGTGCCCTTCGAGGAGGCGCTGCTGGAGGCGTCCGGGACCCCTCCTGCTGCTGGCGCCGGCC
ACCCGCAACCGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCCTGCGCTACGTC
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC
TACCTGCAGCCCCGCTGGACCGACTTCCCCGGCCGGGTCTTGACGTGGGCTTCGTGGGTGCTGGTGGGTGCTG
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTCGCGGTGGTCGGG
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCGACGAT
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGAGAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC
CACTCGCTGGTGCAGGCGGAGGCCCGAGATTGAAACCCTGAGGCCCCCGAGTCTTGCAAACTGCTTGCCTGGGG
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTTTTCTCACTGGATT
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTTCATCACTGGCAGAGCTGGTCATGAGCCTTTTATATA
AGCCTTTTTTCATCGGGCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACTCTTCTA
AGGCCACTTAGATTTTCTTTTTCAAGTTTGGGTGTGGCCTGGCATGGTGATGTCTGTAATCCAGCAGTTTGCA
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAAGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC
AAAAAAGAATAATAATAGTAATTAATAATAAAATTTGAGCTG

5700/6881
FIGURE 5253

MAAAALRRFWSRRRAEAGDAVVAKPGVWARLGSWARALLRDYAEACRDASAEARARPGRAAVYVGLLGGAACFT
LAPSEGAFFEEALLEASGTLILLAPATRNRESEAFVQRLLWLRGRGRLRYVNLGLCSLVYEAPFDAQASLYQARCR
YLQPRWTDFFPGRVLDVGFVGRWWVLGAWMRDCDINDDEFLLHLPALHRRVVGPPQLHSETNERLFDEKYKPVVLTDD
QVDQALWEEQVLQKEKKDRLALSQAHSVLVQAEAPR

5701/6881
FIGURE 5254A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGAGGCTTCCCTCGTTTGGCGGGCGGGCGGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCATTCTGCCCCCGCCCCGCGCGGAGGGGCGGGGAGGCGCCGGGAAGTC
GACGGCGCCGGCGGCTCCTGCAGGAGGCCACTGTCTGCAGCTCCCGTGAAGATGTCCACTCCAGACCCACCCCTG
GGCGGAATCCTCGGCCAGGTCCTTCCCCGGGCCCTGGCCCTTCCCTGGAGCCATGCTGGGGCCCTAGCCCGGGT
CCCTCGCCGGGCTCCGCCACAGCATGATGGGGCCAGCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCCCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGC
ATGTCGGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCCC
CCGCCAGCCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCGTCTTCGGGGCCCCAGATGTCTTCGGGGCCAGGAGGTGCCCCGCTGGATGGTGTGAC
CCCCAGGCCCTTGGGGCAGCAGAACCAGGGGCCCAACCCATTAAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCCCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCCGGCCCCGGGTCCCGGGCCCGCACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCAGGACCCCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCACCCGCGCCTCGCCCGTGATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGGCCAGCCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATACCCCCATCAGAAGCCG
CGGGGCCCTCGACCCCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTAG
GAACTTGAAGAACCTTCCCGGGTCCCTGGCCGGGGATTGCGAACCAGCGACCATTGAGCTCAAGGCCCTCAGG
CTGCTGAACCTCAGAGGCAGCTGCGCCAGGAGGTGGTGGTGTGCATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGGCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGGCAGAAGCACCAAGGAATACCTCAATAGCATTCTCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGACGACAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCGGCAGCACAAAGGCTGCCCAGGTGCGCAAGGAGAAAAAGAAGAAA
AAGAAAAAGAAGAAGGCAGAAAATGCAGAAGGACAGACGCTGCCATTGGGGCCGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAAGCCGGGCAGCTGGAGGCCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAAGAGCAGCCGAGGCAGCACAGCCTCCACCCCTGCCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTCGATGATGAATATGGCGTGTCCAGGCCCTTGACAGTGGCTGCAGTCTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGCTCATCACGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCTCATC
ATCGTGCCCTCTCTCAACGCTGTCCAAGTGGGCGTACGAGTTTGACAAGTGGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCCGCTGCTG
CTGACGGGCACACCGCTGCAGAACAAGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCTGCTGCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTTAACGCACCCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTTCTCATCATCCGGCGTCTCCACAAAGTGTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTCGAGGCCCAGTTGCCCCGAAAAGGTGGAGTACGTATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGTCTAC
CGCCACATGCAGGCCAAGGGCGTGTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCCAAACCTCCGAGCAACCAACCAAAAGTGTGCTGTTCTGCCAAATGACCTCCCTC

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FIGURE 5254B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCCTCCAGCCATGAGCGGCGCGCCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGCAGTGCCAGCTTCGCCACACTGCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCCGACGACGAGACCGTCAACCAGATGATCGCCCGG
CACGAGGAGGAGTTTGATCTGTTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCCGCAACCCCAAGCGG
AAGCCGCGCCTCATGGAGGAGGACGAGCTCCCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTTCGGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCGAGGAGGGCAGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCCGGCTCCTCCACCCCGACCACCAGCACCCGCGAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCCTGCCGAGAACTCTCCCTAACCCACCCAACTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTGAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCCAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGAGTGGTCTTCACC
AGCGTGCAGCAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGCCGGCGGCCGAGCCGAGGGTCCCAGGCCAAGCCGGTTCGTGAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGAGTA
AAACTGTATAAACAAGAAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAACAGCATTAACTGTCTTAAAGAGAGAGAGAGAGAATTCCGAATTGGGGAACACA
CGATACCTGTTTTTCTTTCCGTTGCTGGCAGTACTGTTGCGCCGAGTTTGGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTCACCGTCCACTCCTCTACTGTATTTTATTGGACAGGTCAGACTCGCCGGGGGCCCGCGAGGG
TATGTCAGTGTCACTGGATGTCAAACAGTAATAAATTAACCAACAACAAAACGCA

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FIGURE 5255

MSTPDPLGGTPRPGPSPGGPGSPGAMLGPSGPGSPGSAHSMGPGSPGPPSAGHP IPTQGPGGYPDNMHQMHP
MESMHEKGMSDDPRYNQMKGMGMRSGGHAGMGPPSPMDQHSQGYPSP LGGSEHASSPVPASGPSSGPQMSSGPG
GAPLDGADPQALGQONRGPTFFNQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMFGMQQQMPTLPPPSV
SATGPGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQ
KLIPPQPTGRPSPAPPVFPAAASPVMPPQTQSPGQPAQAPMVPLHQKQSRITPIQKPRGLDPVEILQEREYRLQ
ARIAHRIQELENLPGLAGDLRTKATIELKALRLNFORQLRQEVVCMRRDTALETALNAKAYKRSKRQSLREA
RITEKLEKQKIEQERKRRQKHQEYLSILOHAKDFKEYHRSVTGKIQKLTAKAVATYHANTEREQKENERIEKE
RMRRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLTELVRQHKAQVAKKKKKKKKAENAEGQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGTDAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDDYGVVSQALARGLQSYAVAHAVTERVQKQSALMV
NGVLKQYQIKGLEWLVS LYNNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGSAPAARRAFVPQLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMI VDEGHRMKNHHCKLTQVLNTH
YVAPRRLLLTGTPQLNKLPELWALLNLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAAGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRI LPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKTTFNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPHQDLQAQDRAHRIGQQNEVR
VLRLCTVNSVEEKILAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDES RHCSTGSGSASFHTA
PPPAGVNPDL EEPPLKEEDEVPDDET VNQMIARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVROKKSSRKRKRDSAGSSTPT
TSTRSDKDDSEKKQKKRGRPPAEKLSNPNNLTKKMKKIVDAVIKYKSSSGRQLSEVFIQLPSRKELPEYYEL
IRKPVDFKKIKERIRNHKYRSLNDEKDVMLLCQNAQTFNLEGSLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEGEEGSESESRSVKVKIKLGRKEKAQDRLKGRRRPSRGSRAKPVVSDDDSEEEQEEDRSGSGSEED

5704/6881
FIGURE 5256A

GCCCCGAGTGCAATCGCGGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTCGTGATCCGGGTCGGGACACTGC
CTGGCAGAGGCTGCGAGCATGGGGCCCTGGGGCTGGAATTGCGCTGGACCGTCGCCTTGCTCCTCGCCGCGGCG
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTACCTGCAAA
TCCGGGGACTTCAGCTGTGGGGGCCGTGTCAACCGCTGCATTCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC
TGCGACAACGGCTCAGACGAGCAAGGCTGTCCCCCAAGACGTGCTCCAGGACGAGTTTCGCTGCCACGATGGG
AAGTGCATCTCTCGGCAGTTTCGTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCCCTCCTGCCCCG
GTGCTCAGCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCAGCTGTGGGGCTGCGACAAC
GACCCCGACTGCGAAGATGGCTCGGATGAGTGGCCGAGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT
AGCCCCCTGCTCGGCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGCATCCACTCCAGCTGGCGCTGTGATGGTGGC
CCCGACTGCAAGGACAAATCTGACGAGGAAAACCTGCGCTGTGGCCACCTGTGCGCCTGACGAATTCAGTGCTCT
GATGGAAACTGCATCCATGGCAGCCGGCAGTGTGACCGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC
TGCGTTAATGTGACACTCTGCGAGGGACCCAACAAGTTCAAGTGTACAGCGGCGAATGCATCACCTGGACAAA
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGCGGGACCAACGAATGCTTG
GACAACAACGGCGGCTGTTCACAGTCTGCAATGACCTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC
CAGCTGGTGGCCCAGCGAAGATGCGAAGATATCGATGAGTGTGAGGATCCCGACACCTGCAGCCAGCTCTGCGTG
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCCACACGAAGGCCTGCAAGGCT
GTGGGCTCCATCGCTACCTCTTCTTCCCAACCGGCACGAGGTGAGGAAGATGACGCTGGACCGGAGCGAGTAC
ACCAGCCTCATCCCCAACCTGAGGAACGTGGTCGCTCTGGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT
GACCTGTCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCCCACGGCGTCTCTTCTATGACACCGTCATC
AGCAGAGACATCCAGGCCCCCGACGGGCTGGCTGTGGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC
CTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAGAGGAAAACGTTATTCAGGGAGAAGGGCTCCAAGCCA
AGGGCCATCGTGGTGGATCCTGTTTCATGGCTTCATGTACTGGACTGACTGGGGAACTCCCGCCAAGATCAAGAAA
GGGGGCTGAATGGTGTGGACATCTACTCGCTGGTGGACTGAAAACATTGAGTGGCCCAATGGCATCACCTAGAT
CTCCTCAGTGGCCGCTCTACTGGGTGACTCCAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC
CGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAGTATTT
TGGACAGATATCATCAACGAAGCCATTTTTCAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTTGTGGCTGAA
AACCTACTGTCCCCAGAGGATATGGTTCTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAAGTGGTGTGAGAGG
ACCACCTGAGCAATGGCGGCTGCCAGTATCTGTGCCTCCCTGCCCCGCAGATCAACCCCACTCGCCCCAAGTTT
ACCTGCGCTGCCCCGACGGCATGCTGCTGGCCAGGGACATGAGGAGCTGCCTCACAGAGGCTGAGGCTGCAGTG
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTGAGCTCCACAGCCGTAAGGACACAGCACACAACCAACCCGA
CCTGTTCCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACCCACGGTGGAGATAGTGACAATGTCTCAC
CAAGCTCTGGGCGACGTTGCTGGCAGAGGAAATGAGAAAGAGCCAGTAGCGTGAGGGCTCTGTCCATTGTCTC
CCCATCGTGCTCCTCGTCTTCTTTGCTGGGGGTCTTCTTCTATGGAAGAACTGGCGGCTTAAGAACATCAAC
AGCATCAACTTTGACAACCCCGTCTATCAGAAGACCACAGAGGATGAGGTCCACATTTGCCACAACAGGACGGC
TACAGCTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGACGTGGCGTGAACATCTGCCTGGAGTCCCGTCCCT
GCCAGAACCCTTCTGAGACCTCGCCGGCCTTGTTTTATTCAAAGACAGAGAAGACCAAAGCATTGCCTGCCAG
AGCTTTGTTTTATATATTTATTCATCTGGGAGGCAGAACAGGCTTCGGACAGTGCCCATGCAATGGCTTGGGTTG
GGATTTTGGTTTCTTCTTCTCTCGTGAAGGATAAGAGAAACAGGCCCGGGGGACCAGGATGACACCTCCATTT
CTCTCCAGGAAGTTTTGAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGGATGT
CAGGCCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCACGGGACCCCTGGCCCTGCCTCAT
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA
GCCAGGTAGCCTTTGCCCTGTCAACCCCGAATCATGACCCACCCAGTGTCTTTCAGGTGGGTTTGTACCTTCC
TTAAGCCAGGAAAGGGATTTCATGGCGTCGGAATGATCTGGCTGAATCCGTGGTGGCACCAGACCAAACTCATT
CACCAAATGATGCCACTTCCAGAGGCAGAGCCTGAGTCACTGGTCACCCCTAATATTTATTAAGTGCCTGAGAC
ACCCGGTTACCTTGGCCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTGAGGACACAGCCTGGTGGCCAT
CCTCCCGACCCCTACCCACTTCCATTCCCGTGGTCTCCTTGCACCTTCTCAGTTTCAGAGTTGTACACTGTGTACA
TTTGGCATTGTGTTATTATTTTGCACCTGTTTTCTGTCGTGTGTGGGATGGGATCCAGGCCAGGGAAAGCC

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FIGURE 5256B

CGTGTCAATGAATGCCGGGGACAGAGAGGGGCAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA
CTGCCATTGTCTCTTTATGTCCGCCCACCTAGTGCTTCCACTTCTATGCAAATGCCTCCAAGCCATTCACTTCC
CCAATCTTGTCTGTTGATGGGTATGTGTTTAAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTGAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC
CCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGAGTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT
CTGGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAACAAAAAAACCATGCATGGTGCATCAGCAG
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTTGAGGCTGTCGTG
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAAATGAATTTGGCCA
GACACAGGTGCCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC
ACGTGCCTGTGATCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCATTTTCAAGAAATACAACATAAAAA
AATAAATAAATCCTCCAGTCTGGATCGTTTTGACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA
CTGATGTCCGGAGAGACAGTGACAGCCTCCGTGAGACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC
CCAGGGACAAAACACTGTGTCCCCCAGTGCAGGGAACCGTGATAAGCCTTTCTGGTTTCGGAGCACGTAAATG
CGTCCCTGTACAGATAGTGGGATTTTTTGTATGTTTGCACCTTTGTATATTGGTTGAACTGTTATCACTTATA
TATATATATATACACACATATATATAAAATCTATTTATTTTGCAAACCCTGGTTGCTGTATTTGTTTCAGTGA
ATTCTCGGGGCCCTGTGTAGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA
CTGGACTGTGTGCAACGCTTTTTGGGAGAATGATGTCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT
CACTTTTTAAACCACTGTATAGAAGGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG

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FIGURE 5257

AGTCTGCGCGGCGCGGCCAGGCCCGGCCGACCGCGTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC
TGTCATCCCGCCGCGCGGGGCGAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAGTGAGTG
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCTCGCCTGCCTGGGCCTCAGTTTCCACATCTGCACAATGGG
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCC
ATAGGGCGCTTTCACAGGCCTGGCCTTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT
CCCCTGCTTTGTCTTCGTGGAGTCGGTGTCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCTACCCAGGGCCTGAGGC
TGCCAGCCGAGTGCCCTCCTGCTCTTGTCTACGCACTGGTCACTGCCGGGCCACCCCTCACGATCCTGCTGGGAGA
GCTGGCGCGTGCCTTTTTCCCTGCACCACCTTCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGC
CTGCTGCCGCTTCAGCCCCCAGTGCGGAGGCTGGTCCGCTTCTGGGGGTCTACTCCTTCGGCCTCTTACCAC
GACCATCTTCGCCAAGCGGGGCGAGGTGGTGACCGGCAATCCACGCCACACTTCCTGTCCGTGTGCCGCCCCAA
CTACACGGCCCTGGGCTGCCTGCCACCTTCTCCGGATCGGCCAGGTCCCAGCGCTTTGTCACTGACCAGGGTGC
CTGCGCTGGCAGTCCCAGCCTCGTGGCCGCCGCGCGCCGCGCCTTCCCCTGCAAGGATGCGGCCCTCTGCGCCTA
CGCGGTACCTACACAGCGATGTACGTGACTCTCGTGTTCGCGTGAAGGGTCCCGCCTGGTCAAACCTCGCT
CTGCTGGCCTTGCTGTGCCCGGCCTTCTGGTGGGCGTGGTCCGCGTGGCCGAGTACCGAAACCACTGGTCCGA
CGTGTGGCTGGCTTCTGACAGGGGCGGCCATCGCCACCTTTTGGTACCTGCGTTGTGCATAACTTTAGAG
CCGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCACCATGGATAGCCCCCTCGA
AAAGAACCCGAGGTCTGCAGGCCGCAATTCGACACCGGCACGGCTCACCCCATCCAAGTCGAGAAGTGCGCCCGC
CGTGGCCACCTGATCCCCAGCTGTGTCTCTCCAGGGCCCCAGCCATGTGTTGCTCGCCCCGTGTGCCCGTCTCT
CGATTGAGGTCTGAGCCGACGCCCTTGCCCCCTGCCCTACCCCTGCCAGCGCCACCCACAGCCAGGGCCCCCTCG
CCTTCTCTCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTGGCCGGAAGCTGCTGCTGCCACGCCCTG
CTGCGGGACCTGTACACCCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGGACAACCTCAGCCCTTACCTGTTT
GCCAGCCGTGACCACCTGCTGTGAGGCCCCGACCACCCACCCAGAATCTGCCAGTCCCCACTTCTTCCCTGCCAC
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCAAGCCAGCCAGACCCAGACATTAGAAGA
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCGATGGGCACAAATGGAAGGTG
CGCACTTGCCCCCTACTATTGCCCTTTAAGGGCCAAAGCTTGACCCCATTGGCCATTGCCTGGCTAATGAGAACC
CCTGGTTCTCAGAATTTTAACCAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCTCACTTCTTAGAATCCT
CCTGCAAGAGGGCAACTCCAGCCAGTGTTACGCGACTGAACAGCCAATAGGAGCCCTTGTTTTCCAGAATTTCTA
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGA
GGTCATTGTTTGTATTGAGTCTTCTCTCAGAATCAGCGAGCCCAGCTGTAGGGTGGGGGGCAGGCTCCCCCATG
GCAGGGTCCCTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCTCTCCACCTCTACCCACTCTCT
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGTTTTTGGGGTTCAGGGTGTGTGTCTCCCTTGCC
TGTGCCAGGTTCATCCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTTCTTCTTTTCTTGGAAC
CTGCCCCGTCTTTCACACTGCCCCCATGCCTCAGCCTCATAAGATGTGCCATCATGGGGGGCATGGGTGGAG
CAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCC
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAACAG

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FIGURE 5258

ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT
GTGCCGGGGGCGGGGACGGAGGGGCAGGAGCCCTGGGCTCCCCGTGGCGGGGGCTGTATC**ATG**GACCACCTCGG
GGCGTCCCTCTGGCCCCAGGTCGGCTCCCTTTGTCTCCTGCTCGCTGGGGCCGCCTGGGCGCCCCCGCCTAACCT
CCCGGACCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGGCCCGGGGGCCCGAAGAGCTTCTGTGCTTACACGA
GCGGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCGGGCAACTACAGCTTCTC
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTGCGCTGCACCAGGCTCCACGGCTCGTGGTGCGGTGCCTT
CTGGTGTTCGCTGCCTACAGCCGACACGTGAGCTTCGTGCCCCTAGAGTTGCGCGTCACAGCAGCCTCCGGCGC
TCCGCGATATCACCGTGTCTATCCACATCAATGAAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGTT
GGCTGACGAGAGCGGCCACGTAGTGTTCGCTGGCTCCCGCCGCCTGAGACACCCATGACGTCTCACATCCGCTA
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGCACCGAGTG
TGTGCTGAGCAACCTGCGGGGCCGACGCGCTACACCTTCGCCGTCCGCGCGCGTATGGCTGAGCCGAGCTTCGG
CGGCTTCTGGAGCGCCTGGTTCGGAGCCTGTGTGCTGCTGACGCTAGCGACCTGGACCCCTCATCCTGACGCT
CTCCCTCATCCTCGTGGTTCATCCTGGTGTGCTGCTGACCGTGTCTGCGCTGCTCTCCACCGCCGGGCTCTGAAGCA
GAAGATCTGGCCTGGCATCCCGAGCCCAGAGAGCGAGTTTGAAGGCCTCTTCACCACCCACAAGGGTAACCTCCA
GCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCCTGACCCCTTCACGGAGGACCCACCTGCTTC
CCTGGAAGTCCTCTCAGAGCGCTGCTGGGGGACGATGCAGGCAGTGGAGCCGGGGACAGATGATGAGGGCCCCCT
GCTGGAGCCAGTGGGCAGTGAGCATGCCCAGGATACCTATCTGGTGTGCTGGACAAATGGTTGCTGCCCCGGAACCC
GCCAGTGAGGACCTCCAGGGCCTGGTGGCAGTGTGGACATAGTGGCCATGGATGAAGGCTCAGAAGCATCCTC
CTGCTCATCTGCTTTGGCCTCGAAGCCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA
CCCCAGCTCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCACCCACCTAAAGTACCT
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCAGGGAGCCCCAAGGGGGCTT
ATCCGATGGCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCCAGCCGCTGAGCCTCTGCCCCCAGCTATGT
GGCTTGCTCT**TAG**GACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC
TCAGGAAACCACAACCTTGCAGTATTTTTAAATATGTATAGTTTTTTTG

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FIGURE 5259

MDHLGASLWPQVGSCLLLAGAAWAPPPNLPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPG
NYSFSYQLEDEPWKLCRLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVG
LVARLADESGHVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARM
EPSFGGFWSAWSEPVSLLTPSDLDPLILTSLILVVILVLLTVLALLSHRRALKQKIWPGIPSESEFEGLEFTH
KGNFQLWLYQNDGCLWWSPTFTEDPPASLEVLSERCWGTMQAVEPGTDDEGPLLEPVGSEHAQDTYLVLDKWL
LPRNPPSEDLPGPGGSDIVAMDEGSEASSCSSALASKPSPEGASAAFEYITILDPSSQLLRPWTLCPPLPPTPP
HLKYLYLVSDSGISTDYSSGDSQGAQGGLSDGPYSNPEYENSLIPAAEPLPPSYVACS

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FIGURE 5260

ATTTTTCAGAGCCCTAGGAATCCGAGCTGACGGATCCCTGACAGGGGCGACTGACTCCTAGTTATCCCCCTAACC
CCTAGGGGCTTCAGCCCCAACCCCATCATGACATCTCCTCTGTGCAGGGCGGCCTCCGCCAACGCCCTGCCTCC
TCAGGACCAGGCTTCGACGCCCTCTTCCAGGGTCAAGGGCAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGAGG
CAAGGGCACAGCCCAGGCGTGGACCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGAGGTGCAGGGAAGCCTC
TGTGCACTCTCAGGTGGCTGAGTTACATAAAAAGATACAACCTGTTAGAGGGTGACCGGAAGGCTTTTTTTGAGAG
CTCTCAGTGGAACATCAAGAAGAACCAGGAGACCATCAGTCAGCTCCGCAAGGAGACTAAGGCACTGGAACATAA
GCTGCTGGACCTGCTCAAGGGAGATGAGAAAGTGGTCCAGGCAGTGATTTCGCGAATGGAAGTGGGAGAAGCCATA
CCTGAAGAACAGGACAGGACAGGCCCTGGAGCACCTAGACCACCGGCTGAGGGAGAAGGTGAAGCAGCAGAACGC
CCTGCGGCACCAAGGTGGTGTGTCGGCAGAGGCGGCTGGAGGAGCTCCAGCTGCAGCACAGCCTGCGCCTTCTGGA
GATGGCGGAGGCGCAAAACAGACACACGGAGGTGGCCAAGACCATGCGGAACCTGGAGAACCGCCTGGAGAAGGC
CCAGATGAAGGCGCAGGAGGCCGAGCACATTACCAGCGTGACCTGCAGCTCAAGGCCTATCTAATGGACGAGAG
CCTCAACTTGGAGAACCGGCTGGACTCCATGGAGGCTGAGGTGGTGAGGACCAAACATGAGCTGGAGGCACTGCA
CGTGGTGAACCAAGAGGCCCTCAATGCCCAGGACATTGCCAAGAACCAGCTGCAGTACCTAGAGGAGACCTTGGT
TCGAGAGCGCAAGAAGCGGGAACGCTACATAAGTGAGTGCAAGAAGCGCGCCGAGGAGAAGAACTGGAGAACGA
GCGCATGGAGCGCAAGACCCACCGCGAGCACCTGCTGCTACAGTCCGACGACACCATCCAGGACAGCCTGCATGC
CAAGGAGGAGGAGCTGCGGCAGCGCTGGAGCATGTACCAGATGGAGGTGATCTTTGGCAAGGTCAAGGACGCCAC
TGGCACTGACGAGACGCACTCGTTGGTGCGGCGGTTCTGGCCCAGGGCGACACCTTCGCGCAGTTGGAGACGCT
CAAGAGCGAGAACGAGCAGACGTTGGTGAGGCTGAAGCAGGAGAAGCAACAACCTGCAGCGGGAGCTGGAAGACCT
CAAGTACTCGGGGGAGGCCACGCTGGTGAGCCAGCAGAACTGCAAGCCGAGGCGCAGGAGCGTCTCAAGAAGGA
GGAGCGGCGGCACGCCGAGGCCAAGGACCAGCTGGAGCGCGCCTTGCGGGCGATGCAAGTGGCCAAGGACAGCCT
GGAGCACCTGGCCAGCAAGCTGATCCACATCACTGTGGAGGACGGCCGCTTCGCGGGAAAGGAGCTGGATCCCCA
GGCAGATAACTATGTGCCAAACCTGCTGGGCCTCGTGAGGAAAAGCTGCTGAAACTGCAGGCGCAGCTCCAGGG
CCACGACGTGCAGGAGATGCTGTGCCACATCGCTAACCGCGAGTTCTCGCCAGCTTAGAGGGAAGGCTGCCCCGA
ATACAACACCCGCATCGCCCTGCCCTTGCCACTTCCAAGGACAAGTTTTTTGACGAAGAGAGTGAGGAGGAGGA
CAACGAGGTAGTGACCCGCGCATCACTCAAGATCCGTTCCAGAAATTAATCGAAAGTCACAAGAAGCACCGTCG
CTCTCGGAGGTCCTAGACTCGTCTGACACCCACCAGGCGGCCCCCTTCGGAGCCCCCGATCCCTCCGGGTCTAG
CGCAGGCCCCACGGGGCCCCCTTCAGGGGCTGAACGCGGCCCGGACCGGGAACGGAGGCGGCCAGCGGCGCCCGGA
GGGGAGGAAGGGGCCGGGCCAGACGTTCCACAGTAAATCTCCCCAGCTGGGTCCGCCCCGGCCTCAGAGTTGCG
CAATAAATGTTACCGACCATG

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FIGURE 5261

GCTGCGCCGCCATTAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC
TCGGCTCTGGCACCGCCCCACTCCTGCCTCTCCCAACATGGCGACCCCTGAGTCTCCGTTCCCGGTGCGGAACGT
ACGACCGGAAGTGACGGGGTCCAGAAATTTCCGCTTTCTTTCTGCAGCAGGAACCGCGGCTGCTGGACAAGAGGG
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCTGAAGACACAGCGCATCTCCCCGCTGTAGGCTTCTCTCC
ACAGAACCCGTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTGCTACCCATGTGCTGG
GCCGTGGAGGTCAAGAGGCCCCGGGGCGTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTTACC
TGCTTGACGGTTCGGCCACCATCCATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGAC
GAGCCAGGCACGGCTGCCTGTCCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCCCTGTATATCCCC
TCCAACCGGGTCAACGATGGTGTGTTGTGACTGCTGCGATGGAAACAGACGAGTACAACAGCGGCGTCATCTGTGAG
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTACCCGCGAAGGGTTCC
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTCACCCGG
AGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG
ACGCCACCTCTTTCTACGACCGCGTCTGGGCGGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCACCGACC
TTCCAGCACCTTCTGCCCTGACTTGACGGAGCCCAAGGAGGAGCAGCCGCCAGTGCCCTCGTCGCCACAGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTCACCCCGCAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGC
CGCCCTACGACGAGCAGACGCAGGCCCTTCATCGATGCTGCCAGGAGGCCCGCAACAAGTTCGAGGAGGCCGAGC
GGTCGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTTCTTTTGACTTTGGCCCCAACGGGG
AGTTTGCTTACCTGTACAGCCAGTGCTACGAGCTCACCACCAACGAATACGTCTACCGCCTCTGCCCTTCAAGC
TTGTCTCGCAGAAACCCAACTCGGGGGCTCTCCACCAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACC
ACGACAAGTTTCAAGTATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC
GCCTCCTGTGCGGGAAAGAGACCATGGTGACCAGCACCACAGAGCCAGTCGCTGCGAGTACCTCATGGAGCTGA
TGACGCCAGCCGCCTGCCCCGAGCCACCGCCTGAAGCACCCACCGAAGACGACCATGACGAGCTCTAGCTGGATG
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTGGCCTGCCCCAGCAAGGGGAGGCGGCGGGCCCTGAGGAAGA
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCCATGTTCCCTGCTTTTTTGTGTTTTTTTGTAGGTGGAG
TCTCACTCTTTGGCCAGGCTGGAGTGCAGTGTGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAAA
CAATTGTCTTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTAGTAG
AGATGGGGTTTTACCATGTTGGCCTGGATGGTCTCGAACTCCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCCATCTCCTGCCTTTTTTTTTTTTGGATGGAGTTTAC
TCTTGTGCGGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAATAAT
AATAATAAGAGAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCCACCTCAGCCTC
CCAAGCAGCCGGGACTACAGGCAAACATCACCATGTCCAGCTGTCCCCAGCTTTCTAATCTGGTCTTTCTCTTGC
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCCCTGCAGTGCCGTCCACCCGCCCTCTGGGCCTGCCTGTGGCTC
TGTTGCCCTCCTCTGTGGCGGCAGGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCAGGCGGGGCTGGTCC
ACATTCCCAGGCCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCTGGGGCCCCACCTTGGTGACT
CGCCCCACCACCCCAAGCCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA
ATACAATAAATGTGATCCCCACCC

FIGURE 5262

[illegible]

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FIGURE 5263

MGRRKSKRKPPPKKMTGTLETQFTCPFCNHEKSCDVKMDRARNTGVISCTVCLEEFQTPITYLSEPVDVYSDWI
DACEAANQ

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FIGURE 5264

TTTCTGCCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGT
CTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAA
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACC
ATGACTCCGTGGATAAGACTGTCATTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCC
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGTTCTGGAACTTTGGTGGTGGTC
GTGGAGGTGGTTTTCGGTGGGAATGACAACCTTCGGTTCGTGGAGGAACTTCAGTGGTCTGGTGGCTTTGGTGGCA
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGTGGCTATGG
CGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAG
AGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAATAGATTTGTGAAGTCAAGCAAGCACAGTGGTGGCAGGGCC
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTATTTGTG
ACTAATTGTATAACAGGTTATTTTAGTTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAACGT
AGATTTCTTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTTT
TTTT

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FIGURE 5265

MSKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVITYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKTVIQYHTVNGHNCEVRKALSKQEMASASSSQGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSHGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPR
NQVAMAVPAAAVAMAVAEDFN

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FIGURE 5266

CTCTTTCCCTTCAGTGTGCCACTGAAGATCCTGGTGTGCCATGGGCGCCGCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTCTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCTT
CTGAAGCCCTGGAGGCTGCCC GAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTCGTCCTGTGCTGGGGCTGACAGGCTCC
AAACAGGAATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCGTGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
CTCTGGACAAGTGGTGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAA
TTCTACTT

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FIGURE 5267

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCCCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAAATGGTGGACGTATTGGTGACCACAGCTGGCGGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCCCTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGACCTGAGGCTCATCAACAC
ACAGGCCATCTTTGCCAAGTGCACTGGGATGATCATTCTGGGCGGGGGCGTGGTCAAGCACCACATTGCCAATGC
CAACCTCATGCGGAACGGGGCCGACTACGCTGTTTACATCAACACAGCCCAGGAGTTTGATGGCTCTGACTCAGG
TGCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGC
CTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGA
GGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCCCTCCC
TACTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 5268

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMIEKKLE
PLSQDEQHADLTQSRRLTSCITIFLGYSNLISSGIRETIRYLVQHNMDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWTTPSKMIARLGKEINNPESVYYWAQ
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKCTGMIILGGGVVKHHIANANLMRNGA
DYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFAQKMDAFMHEKNED

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FIGURE 5269

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCAACGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGCCCAGGAGTTTGATGGCTC
TGAATCAGGTGCCCCGACCAGACGAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTA
TGCTGACGCCTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGA
GAAGAACGAGGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAG
CCCTCCCTACTTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 5270

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATCGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCGGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCAACGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCGCCCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTA
CCTTGTCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTTACAAGAACCCGGGCCTGGTCTTGACATCGTTGAGGGTGCCCGACCAGACGAGGC
TGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCCT
GCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGAGGACTTGAGCGGCTGCGGT
CCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCTACTTTTTTGGTCAGCTAC
GTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5271

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMIEKKLE
PLSQDEQDQHADLTQSRRLTSTCTIFLGYTSNLISSGIRETIRYLVQHNMVDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWKTPSKMIARLGKEINNPESVYYWAQ
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFA
QKMDAFMHEKNED

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FIGURE 5272

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG
AAGCCTGACAGGGCTTTTTCGCACAGCTGCCGGCTGGCTGCTACCCGCCCCGCGCCAGCCCCGAGAACGCGCGAC
CAGGCACCCAGTCCGGTCACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCCGAGCGGCCCCGCAGGGA
CCCTCCCCAGACCGCTGGGCCGCCCCGGATGTGCACTAAATGGAACAGCCCTTCTACCACGACGACTCATACAC
AGCTACGGGATACGGCCGGGCCCCCTGGTGGCCTCTCTCTACACGACTACAACTCCTGAAACCGAGCCTGGCGGT
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCCTGGGGCTCGCGGACCCGGCCCAGAGGGCGGCGGTGGCGG
CAGCTACTTTTCTGGTCAGGGCTCGGACACCGGCGCGTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT
TGTCCCCAACAGCAACGGCGTGATCACGACGACGCCTACACCCCGGGACAGTACTTTTACCCCCGCGGGGGTGG
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTCACCGAGGAGCAGGAGGGCTTCGCCGACGGCTTTGTCAA
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCCAACGTGTCCCTGGGCGCTACCGGGGGGCCCCC
GGCTGGGGCCCGGGGGCGTCTACGCCGGCCCCGGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC
CTCTGCGTCTCGGGAGGCGCCGGGGCTGCCGTGGGACCGGGAGCTCGTACCCGACGACCACCATCAGCTACCT
CCCACACGCGCCGCCCTTCGCCGGTGGCCACCCGGCGCAGCTGGGCTTGGGCCGCGGCGCCTCCACCTTCAAGGA
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCGCCGGTGTCCCCATCAACATGGAAGACCA
AGAGCGCATCAAAGTGGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA
GCGCATCGCGCGCCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGCTGTGAGTACCGCCGGCCT
CCTCCGGGAGCAGGTGGCCCAGCTCAAACAGAAGGTCATGACCCACGTCAGCAACGGCTGTCAGCTGCTGCTTGG
GGTCAAGGGACACGCCTTCTGAACGTCCCCTGCCCTTTACGGACACCCCTCGCTTGGACGGCTGGGCACACGC
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCCCTGGGACCTAGGGGCGCCGCAAACCACACTGGACT
CCGGCCCCCTACCTTGCGCCAGTCCTTCCACCTCGACGTTTACAAGCCCCCCTTCCACTTTTTTTTTGTATGT
TTTTTTTCTGCTGGAAACAGACTCGATTCAATTTGAATATAATATATTTGTGTATTTAACAGGGAGGGGAAGAGG
GGGCGATCGCGGCGGAGCTGGCCCCGCCGCTGGTACTCAAGCCCGCGGGGACATTGGGAAGGGGACCCCCGCC
CCTGCCCTCCCCTCTCTGCACCGTACTGTGGAAAAGAAACACGCACTTAGTCTCTAAAGAGTTTATTTTAAGACG
TGTTTGTGTTTGTGTGTGTTTGTCTTTTTATTGAATCTATTTAAGTAAAAAAAAAATTGGTTCTTTATTAA

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FIGURE 5273

MCTKMEQPFYHDDSYTATGYGRAPGGLSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGPEGGGGGSYFSGQGSD
TGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGGSGGGAGGAGGGVTEEQEGFADGFVKALDDLHKMN
HVTTPNVSLGATGGPPAGPGGVYAGPEPPPVYTNLSSYSPASASSGGAGAAVGTGSSYPTTTISYLPHAPPFAGG
HPAQLGLGRGASTFKEEPQTVPEARSRDATPPVSPINMEDQERIKVERKRLRNRLAATKCRKRKLERIARLEDKV
KTLKAENAGLSSTAGLLREQVAQLKQKVMTHVSNQCQLLLGVKGHAF

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FIGURE 5274

CGCGGCCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGCCTTTGCCCCA
CGCAGCTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCACAGCGGTGG
TTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCTACCCTCTGG
ACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTTACGCAACCGTGCAGAGGACTTCCGCAAGCTGGGCTGTG
AAGTGCTGGGCGTCTCGGTGGACTCTCAGTTTACCCACCTGGCTTGGATCAACACCCCCCGGAAAGAGGGAGGCT
TGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGCTGAAAACAG
ATGAGGGCATTGCCTACAGGGGCCTCTTTATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATT
TGCCTGTGGGACGCTCCGTGGATGAGGCTCTGCGGCTGGTCCAGGCCTTCCAGTACACAGACGAGCATGGGGAAG
TTTGTCCCGCTGGCTGGAAGCCTGGCAGTGACACGATTAAGCCCAACGTGGATGACAGCAAGGAATATTTCTCCA
AACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCCCTGCCTAGGTGCCTGTGCTGGGTGTCCACCTGTGC
CCCCACCTGGGTGCCCTATGCTGACCCAGGAAAGGCCAGACCTGCCCTCCAACTCCACAGTATGGGACCCTGG
AGGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAAGCTGAATAGTGACGCCCTCCCCAAGCCCACCCAGCC
GCACACAGGCCTAGAGGTAACCAATAAAGTATTAGGG

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FIGURE 5275

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLFFYP LDFTFVCPTEIIAFSNRAEDFRKLGCEVLGV
SVDSQFTHLAWINTPRKEGGLGPLNIPLLDVTRRLSEYGV LKTDEGIAYRGLFIIDGKGVLRQITVNDLPVGR
SVDEALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSKEYFSKHN

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FIGURE 5276

AAAAGGCTTCGCGGCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGC
CTTTGCCCACGCAGCTTTTCAATCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCA
CAGCGGTGGTTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCTCTTTTCT
ACCCTCTGGACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCCGCAAGC
TGGGCTGTGAAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGGAAAG
AGGGAGGCTTGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGC
TGAAAACAGATGAGGGCATTGCCTACAGGTACTGTGGGACCCCTAGCCCGGCTCAGGGAGCGCCCTGCCCCCAT
TCCTGTGATGCTGGGACCACTCCTGTACAATGTCTTCTCTGCCCCAGCCCTGTGGCTAGCAGCGGGTGGTTGGT
AGTCCCTTCCTTGTCTCTGGCAGTGGGAGCTATCAGCTCCTCACTGGGAACCCTGATGTCTTCAGGGGCCTCTTT
ATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATTTGCCTGTGGGACGCTCCG

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FIGURE 5277

CCATGGCAGGTCGCTCCTGCAGTATTAGTTCTTGCAGCTGGTGGCGGCGGCTGAGGCGGCATCGATCTCAGCGAG
CTGGAGAGAGACAATACAGGCCGCTGTCGCCTGAGTTCGCCTGTGCCCGCGGTGTGCCGCAAGGAGCCTTGCGTC
CTGGGCGTCGATGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCCTGCCT
CGCCTGGCAGATCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCTATTGGAGAGCGAGCGGGAAAGGCTGTTT
GCGAAATGGAGGACACGGACTTTGTGCGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATG
CTTGGGCGGGTCAAATACAACCTGAACTCCCTGTACATGATACAGCCACTGGGCTTATACAGTATGCATTGGAC
CAGGGCGTGAACGTCACCCAGGTATTCGTGGACACCGTAGGGATGCCAGAGACATAACCAGGCGCAGCTGCAGCAA
AGTTTTCCCGGATTGAGGTGACGGTCAAGGCCAAAGCAGATGCCCTCTACCCGGTGGTTAGTGCTGCCAGCATC
TGTGCCAAGGTGGCCCGGGACCAGGCCGTGAAGAAATGGCAGTTCGTGGAGAACTGCAGGACTTGGATACTGAT
TATGGCTCAGGCTACCCCAATGATCCCAAGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTCCGGCTTC
CCCCAGTTTGTCCGGTTCAGCTGGCGCACGGCCCAGACCATCCTGGAGAAAGAGGCGGAAGATGTTATATGGGAG
GACTCAGCATCCGAGAATCAGGAGGGACTCAGGAAGATCACATCCTACTTCCTCAATGAAGGGTCCCAAGCCCGT
CCCCGTTCTTCCCACCGATATTCCTGGAACGCGGCCTGGAGTCAGCAACCAGCCTCTAGCAGCTGCCTCTACGC
GCTCTACCTGCTTCCCCAACCCAGACATTAAAATTGTTTAAGGAG

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FIGURE 5278

MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRGPVLGPMVYAICYCPLPRLADLEALKVADSKTLLESE
RERLFAKMEDTDFVGWALDVLSPNLISTSM LGRVKYNLSLSHDTATGLIQYALDQGVNVTQVFVDTVGMPETYQ
AQLQQSFPGIEVTVKAKADALYPVVSAA SICAKVARDQAVKKWQFVEKLQDLDDTDYGS GYPNDPKTKAWLKEHVE
PVFGFPQFVRFSWRTAQTILEKEAEDVIWEDSASENQEGLRKITSYFLNEGSQARPRSSHRYFLER GLE SATSL

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FIGURE 5279

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAC TGCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTCATCGAGGCTGAAC TTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCCGTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTGCGGTGGACAAGAGTGCGGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGAAGTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAACCTTCTTGGCCACGGTGTCTCTCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCGGACAGATCTTCTGGAGATGGGGTTTACCAGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAAC TTTGACGCCCTCTTCCAGCCCCAGCAGCACCAGCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCCGAAA
AACCTACTGCGAACCACACCACATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCAGAGAAGGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTCACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTCAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAACTCGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCGAGAAGTGTGCGGTCA TTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCCTGTGCCGCCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTAGACATGGGCCACTCTAGGACAGGTCATCCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGTATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCTCTTTCCACCTGTCCAGGACCAGAATCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 5280

MADGQVAELLRRLEASDGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEDEVQRRQLVRGGQAEK
LGEKERSELKRKLLAEVTLKTYWVSKGSFAFSTSISKQETELSPEMISSGSRDRPFKPYNFLAHGVLDPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPD NFI ESSFWNFDALFQPQQHPARDQHDTFFLRDPAEALQLPMDYVQVRKTH
SQGGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLRFFTKLGITQLRFKPAYNPYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMGLPE
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMQVYDSPLCRLDAEP RPPFTQ EAA

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FIGURE 5281

GTCCGTACTGCAGAGCCGCTGCCGGAGGGTCGTTTTAAAGGGCCCGCGCGTTGCCGCCCCCTCGGCCCCGCC**ATGC**
TGCTATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTCGCCGAGCCTGCCGTCTACTTCAAGGAGCAGT
TTCTGGACGGAGACGGGTGGACTTCCCGCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCA
GTTCCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTC
TGTCGGCCAGTTTCGAGCCTTTCAGCAACAAAGGCCAGACGCTGGTGGTGCAGTTCACGGTGAAACATGAGCAGA
ACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAG
AATACAACATCATGTTTGGTCCCGACATCTGTGGCCCTGGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGG
GCAAGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGC
GGCCAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGGAAGACGATTGGGACT
TCCTGCCACCCAGAAGATAAAGGATCCTGATGCTTCAAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATG
ATCCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCCGAGCATATCCCTGACCCTGATGCTAAGAAGCCCCGAGG
ACTGGGATGAAGAGATGGACGGAGAGTGGGAACCCCCAGTGATTGAGAACCCTGAGTACAAGGGTGAGTGGAAGC
CCCCGCAGATCGACAACCCAGATTACAAGGGCACTTGGATCCACCCAGAAATGACAACCCCGAGTATTCTCCCG
ATCCCAAGTATCTATGCCTAIGATAACTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCT
TTGACAACTTCCTCATCACCAACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGG
CAGCAGAGAAACAAATGAAGGACAAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCA
AAGAGGAGGAGGAGGAGGACAGGAGCAAGGAGGATGATGAGGACAAAGATGAGGATGAGGAGGATGAGGAGGACAAGG
AGGAAGATGAGGAGGAAGATGTCCCCGGCCAGGCCAAGGACGAGCTG**TAG**AGAGGCCTGCCTCCAGGGCTGGACT
GAGGCCTGAGCGCTCCTGCCGCAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGAACTTTCATTTTT
TTCCAGGCTGGTTTCGATTGTTGGGTGGATTTTGGTTTTGTTCCCTCCTCCACTCTCCCCACCCCTCCCCGCC
CTTTTTTTTTTTTTTTTTTAACTGGTATTTTATCTTTGATTCTCCTTCAGCCCTCACCCCTGGTTCTCATCTTTC
TTGATCAACATCTTTTCTTGCTCTGTCCCCTTCTCTCATCTCTTAGCTCCCCTCCAACCTGGGGGGCAGTGGTG
TGGAGAAGCCACAGGCCTGAGATTTTCATCTGCTCTCCTTCTGAGGCCAGAGGAGGGCAGCAGAAGGGGGTGGT
GTCTCCAACCCCCCAGCACTGAGGAAGAACGGGGCTCTTCTCATTTTACCCCTCCCTTTCTCCCTGCCCCCAGG
ACTGGGCCACTTCTGGGTGGGGCAGTGGGTCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAAT
TCTATTAAATTAAATTTTGTGTCTC

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FIGURE 5282

MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQTSQDARFY
ALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTMHGDSEYNIMFGPDICGPGTKKVHVIFNY
KGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKI
DDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYS
PDPSIYAYDNFGVLGLDLWQVKSQTIFDNFLITNDEAYAEFFGNETWGVTKAAEKQMKDKQDEEQRLKEEEDKK
RKEEEEAEDKEDDEDKDEDEEDEDKEDEEEDVPGQAKDEL

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FIGURE 5283

CCGGAAGTGGTCGGCGCGCGGGCGCGCGCCTGGGCGCTAAGATGGCGGGCGGCGTGAGTTGCATGTTGTGTGAG
GATCCCGGGGCGCGCGCTCGCTCGGGCCCCGCCATGGCCGTCACCATCACGCTCAAAACGCTGCAGCAGCAGAC
CTTCAAGATCCGCATGGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTCGTGA
TGCCTTCCCCGTGGCTGGACAGAACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTA
TCGCATCGATGAGAAGAACTTTGTGGTCGTCATGGTGACCAAGACCAAAGCCGGCCAGGGTACCTCAGCACCCCC
AGAGGCCTCACCCACAGCTGCCCCAGAGTCCTCTACATCCTTCCCGCCTGCCCCACCTCAGGCATGTCCCATCC
CCCACCTGCCGCCAGAGAGGACAAGAGCCCATCAGAGGAATCCGCCCCACGACGTCCCCAGAGTCTGTGTTCAGG
CTCTGTTCCCTCTTCAGGTAGCAGCGGGCGAGAGGAAGACGCGGCCTCCACGCTAGTGACGGGCTCTGAGTATGA
GACGATGCTGACGGAGATCATGTCCATGGGCTATGAGCGAGAGCGGGTCGTGGCCGCCCTGAGAGCCAGCTACAA
CAACCCCCACCGAGCCGTGGAGTATCTGCTCACGGGAATTCCTGGGAGCCCCGAGCCGGAACACGGTTCTGTCCA
GGAGAGCCAGGTATCGGAGCAGCCGGCCACGGAAGCAGCAGGAGAGAACCCCTGGAGTTCCTGCGGGACCAGCC
CCAGTTCCAGAACATGCGGCAGGTGATTCAGCAGAACCCTGCGCTGCTGCCCCCCTGCTCCAGCAGCTGGGCCA
GGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACAGGAGCAGTTCATCCAGATGCTGAACGAGCCCCCTGG
GGAGCTGGCGGACATCTCAGATGTGGAGGGGGAGGTGGGCGCCATAGGAGAGGAGGCCCGCAGATGAACTACAT
CCAGGTGACGCCGCAGGAGAAAGAAGCTATAGAGAGGTTGAAGGCCCTGGGCTTCCAGAGAGCCTGGTCATCCA
GGCCTATTTGCGGTGTGAAAAAATGAGAACTTGCTGCCAACTTCCTCCTGAGTCAGAACTTTGATGACGAGTG
ATGCCAGGAAGCCAGGCCACCGAAGCCCCACCCTACCCTTATTCCATGAAAGTTTATAAAAGAAAAATATAT
ATATATTCATGTTTATTTAAGAAATGGAAAAAATCAAAAATCTTAAAAAACAAGCAAACAGTCCAGCTTCC
TGTCTCCTAAAGTGGCCCCCTGTTCCCATCTCCGGGCCAGACAGCTGTCCCCCGTCTCCTCCCCAGCCCAGC
CTGCTCAGAGAAGCTGGCAGGACTGGGAGGCGACAGATGGGCCCCCTCTTGGCCTCTGTCCCAGCTCTCTGCAGCC
AGACGGAAAGGCGGCTGCTTGCCCTCTCCATCTCCGAAAAACCCCTGAGGACCCCCCCCCATCCTCTTCTAGGAT
GAGGGGAAGCTGGAGCCCCAACTTTGATCCTCCATTGGAGTGGCCCAAATCTTCCATCTAGGGCAAGTCCTGAA
AGGCCCAAGGCCCTCCCCAGTCTGGCCTTGGCCTCCAGCCTGGAGAAGGGCTAACATCAGCTCATTGTCAAGG
CCACCCCCACCCAGAACAGAACCGTGTCTCTGATAAAGGTTTTGAAGTGAATAAAGTTTTAAAACT

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FIGURE 5284

MAVTITLKTLOQQTFFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNFVVVM
VTKTKAGQGTSAPPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPEVSGSVPSGSSGRE
EDAASTLVGTSEYETMLTEIMSMGYERERVVAALRASYNPNPHRAVEYLLTGIPGSPEPEHGSVQESQVSEQPATE
AAGENPLEFLRDQPFQNMQRQVIQQNPALLPALLOQLGQENPQLLOQISRHQEQFIQMLNEPPGELADISDVEGE
VGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENLAANFLLSQNFDDE

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FIGURE 5285

ATGGCGGCGTCCGTGCGACAGGCACGCAGCCTACTAGGTGTGGCGGCGACCCTGGCCCCGGGTTCCTCGTGGCTAC
CGGGCGCGGCCGCCCCGCGCCGAGGCCGGGACCCCGGTGGCCAGACCCGAGGACCTCCTGACCCCGCGGTGG
CAGCTGGGACCGCGCTACGCGGCTAAGCAGTTCGCGCGTTACGGCGCCGCCTCCGGGGTGGTCCCCGGTTCGTTA
TGGCCGTCGCCGGAGCAGCTGCGGGAGCTGGAGGCCGAAGAACGCGAATGGTACCCGAGCCTGGCGACCATGCAG
GAGTCGCTGCGGGTGAAGCAGCTGGCCGAAGAGCAGAAGCGTTCGGGAGAGGGAGCAGCACATCGCAGAGTGCATG
GCCAAGATGCCACAGATGATTGTGAACTGGCAGCAGCAGCAGCGGGAGAACTGGGAGAAGGCCCAGGCTGACAAG
GAGAGGAGGGCCCCGACTGCAGGCTGAGGCCCAGGAGCTCCTGGGCTACCAGGTGGACCCAAGGAGTGCCCGCTTC
CAGGAGCTGCTCCAGGACCTAGAGAAGAAGGAGCGCAAGCGCCTCAAGGAGGAAAAACAGAAACGGAAGAAGGAG
GCGCGAGCTGCTGCATTGGCTGCAGCTGTGGCTCAAGACCCAGCAGCCTCTGGGGCACCCAGCTCCTGA

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FIGURE 5286

CTAATTCGGGAAACGTGCACCTTGACTAATTTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGGCGGGCGGAGGCGC
CAGCGGATGTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCCGGGTGCTCTCTAGAGC
CCGGTTTTTCGAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACCGGGGCCCTACGGAGA
AGAACGTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGGGCTGCCAAAATCGCCTTTCCAGTGCCAACGA
GGTCTTTTATAACCCGGTGCAGGAATTCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTCA
GCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCAGA
GCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAACCTCGCACAGCGGCCGT
GGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGC
CCTAGAGGTGCCCTGGGCTCAGATCTGTGGTTGCAAACGATGCCCTCCACCCGGGCTGTGGATCTCATACGCCGGAA
TGTCCAGCTCAATGACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACCAGCACCA
GAGGGTGTCTGGAGAGGTTTGACGTCTATCGATCTGGACCCCTATGGCAGCCACGCCACCTTCCTGGATGCAGCTGT
GCAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGTGACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGA
GACGTGCTACAGCAAGTACGGGGCCATGGCCCTCAAGAGCCGGGCCTGCCACGAGATGGCCCTGAGAATCGTCCT
GCACAGCCTGGACCTCCGCGCCAACCTGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTCTA
CGTGCGTGTTTTTGTCCGTGTCTTCACCGGCCAGGCCAAGGTCAAGGCCTCAGCCAGCAAGCAGGCGCTGGTGTT
CCAGTGTGTGGGCTGCGGGGCCTTCCACCTTCAGCGTCTCGGCAAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAA
GTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCC
CATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGCCGTGTCCTGGAGGCTGTGAGCGCTAACCCCGGCCG
CTTCCACACCTCGGAGCGGATCCGAGGGGTCTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTA
CACCTTGGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGCCCTCCTCCA
CGCTGACTTCCGGGTCTCACTCTCCACGCCTGTAAGAACGCTGTGAAGACGGATGCCCTGCCTCTGCCCTCTG
GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCAGCGTTCCG
CATTCTCAGTGTGGAGCCCAGGCTGCAGGCCAACTTACCATCCGGGAAGATGCCAACCCAGCTCCCGACAGCG
AGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAAGTGGGGTCCCCGGCCTCGTGCCCGGCCAGGGGGCAAGGC
GGCCGACGAAGCTATGGAGGAGAGACGCAGGCTGCTTCAAGAACAAAGCGGAAGGAGCCGCCGAAGATGTGGCCCA
GCGGGCTGCCCCGGCTCAAGACATTTCTTGCAAGAGGTTTAAAGAGGGCACCTGTCAACGCGGGGACCAGTGCTG
CTACTCCACAGCCCCCGACACCCAGGGTTTCTGCTGATGTGCCCCTGACTGTCCAGAGACCTCCAACCAGAC
CCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTTGAACCAATAAAGAGATGTCACGTCACCTTCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5287

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLPNTAAMENGTGPYGEERPQETTVTEGAAKIAFPSANEVFYN
PVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVDLSEQEEKVELKESENLASGDQPRTAAVGEIC
EEGLHVLEGLAASGLRSIRFALEVPGRLSVVANDASTRAVDLIRRVQLNDVAHLVQPSQADARMLMYQHQRVSE
RFDVIDLDPYGPATFLDAAVQAVSEGGLLCVTCTDMAVLAGNSGETCYSKYGAMALKSRACHEMALRIVLHSLD
LRANCYQRFVVPLLSISADFYVRVVFVRVFTGQAKVKASASKQALVFQCVGCGAFHLQRLGKASGVPSGRAKFSAA
CGPPVTPECEHCGQRHQLGGPMWAEPIHDLDFVGRVLEAVSANPGRFHTSERIRGVLSVITEELPDVPLYTLDQ
LSSTIHCNTPSLQLRSALLHADFRVSLSHACKNAVKTAPASALWDIMRCWEKECPVKRERLSETSPAFRILSV
EPRLQANFTIREDANPSSRQRLKRFQANPEANWGPRPRARPGGKAADEAMEERRRLQNKREPPEDVAQRAAR
LKTFPCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTQTPPGPGAAAGPGID

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FIGURE 5288

ATGTCTCTCGAAGACCCCTTTTTTGTAGTCCGAGGCGAGGTGCAGAAGGCGGTGAACACGGCCCCGCGGGCTGTAC
CAGCGCTGGTGCGAGCTCCTGCAGGAAAGCGCGGGCGGTCCGACGCGAGGAGCTGGACTGGACGACCAATGAGCTG
CGGAATGGCCTGCGCAGCATCGAGTGGGACCTCGAGGACCTGGAAGAGACCATCGGTATAGTGGAAAGCCAACCCA
GGCAAGTTCAAGCTCCCAGCCGGGGACCTGCAGGAGAGAAAGGTGTTTCGTGGAGCGGATGCGAGAGGCAGTCCAG
GAAATGAAGGACCATATGGTCAGCCCAACAGCCGTAGCATTTTTTGGAGAGGAATAACAGAGAGATACTCGCAGGC
AAGCCAGCTGCCCAGAAAGTCACCCAGCGACCTGCTGGATGCCAGCGCAGTCTCGGCCACATCTCGCTACATCGAG
GAGCAGCAGGCCACACAGCAGCTGATCATGGATGAACAGGATCAACAGCTGGAGATGGTGTCTGGGAGCATCCAG
GTTCTGAAGCACATGTCCGGCCGCGTTGGAGAAGAGCTGGACGAGCAGGGCATCATGCTGGATGCCTTCGCCCAA
GAGATGGACCACACCCAGTCCCGCATGGACGGGGTCCTCAGGAAGTTGGCCAAAGTATCCCACATGACGAGTGAC
CGCCGACAGTGGTGTGCCATCGCCGTGCTAGTGGGGTGCTTCTCCTCGTTCTCATCTTACTATTCTCTCTCTTGA

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FIGURE 5289

MSLEDPFFVVRGEVQKAVNTARGLYQRWCELLQESAAGREELDWTITNELRNGLSIEWDLEDLEETIGIVEANP
GKFKLPAGDLQERKVFVERMREAVQEMKDHMVSPATAVAFLENNREILAGKPAAQKSPSDLLDASAVSATSRYE
EQQATQQLIMDEQDQQLEMVSGSIQVLKHMSGRVGEELDEQGIMLDAFAQEMDHTQSRMDGVLRLAKVSHMTSD
RRQWCAIAVLVGVLLLVLILLFSL

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FIGURE 5290

GGTTTGTGTAGAGAGGCGTGAGCGAGCCCGTTGTCCGGAGTGACCTGCTGCCTGTTCTGTCCCTCCCGGGAGCC
CCCGCCGCTGTCGCCGTCGAGTCGCCATGGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCTGTCGGTGTGGA
AGATGTATCACTCCCGCATGCAGCGCGGTGGCCTGCGGCTGCACCGGAGTCTGCAGCTGTCGCTGGTCATGCGCA
GCGCCCGGGAGCTCTACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCCGAGGTGTGTTGCCGGCCGCCCTCCCT
CTGACCCTCGCCTGCACCCGCCCGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCCGACGGTGAGCACCCGT
TTCCGGAGCCAATGGACACGCAGGAGGCGCCGACAGCCGAGGAGACCTCCGCCTGCTGTGCCCCGCGCCCCGCCA
AAGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCGAGCAAGAAAGCCC
GTCTGGAAGAAAAGGAAGAAGAGGAGGGAGCGTCATCCGAAGTCGCCGATCGCCTGCAGCCCCCTCCGGCGCAAG
CGGAGGGCGCCTTTCCCAACCTGGCCCGCGTCTGCAGAGGCGCTTCTCCGGCCTCCTGAACTGCAGCCCCGCGG
CCCCCTCCGACGGCGCCGCCCGCGTGCAGGGCAAAGCCCGCTTGCCGCCCGGGCGGACAGCATGCTCAACGTGCTCG
TGCGGGCCGTGGTGGCCTTCTTGAGGACCCCCGAGCGGCGCTGCCGGAGCCCAGAGCGCGCGTCTGAACCGTCGGCCC
GAGGGCGCAGACCTGAGGCGAGGCCACCCCCCTCCATCCTGGGGGAAGCGCCCGCGAAAACCGTGAGAGAAGCC
GCCGCCCGGGCTGCTGAGAGGCCCGGAGAGGGACTCTGTCCCCGGGGAGCCATCGCCTTCAGTGTGCAGGGACGG
CACCGAGGAGTCTGAGCCGGGGGCGCGGGCGCCTTCCGCAGAGACCTGCGCCACAGGTGCTGTCTTAGTGGACT
GGGACGTGAACCTTTCGCTCTCCTTCTGGACTGGGAGAAGGGAGGCTTGGGTGTTGTGTTTTTTGTTTTGTTTGT
TTGTTTGTTTTTAAAGATCTCCTCAGGGTCGGACTTCATTTTGTACTGTGGGCTGTGCTGGCCCTTTCAAGGTTT
TTCAAGAGTTGGTTTTGCGTTTTCCAACCTCGGAGAATTCCAGGCACTCCCCTTCCCCCTCCGCTGACATACTTGT
ATAAGCGGTCATCGTTGCGTCATGGGGCAGGCGTGGGGAGCTTCCTGTGCGCTTGCGTGGGTGTGGGGCCTGGGA
GGAGGTCTGGGGCGTGACCCGCCCTGGGCAGTGGGGAGGAGAGTGGCCTGAGTTACTTCACCCCCGCGTGCTG
CTGGTTAATGTCCCGCGTCTCTGCACCTTCGGGTGGGAGCGGGGACTGATCTACTTTCACATTCTCAAGTTTTTC
TCATCTGCATTAGAGGTGCCAGTAGGTTCCCAGGTTCCAGCGTGCCCCCTCCCTCAGACACACGGACACAATCAG
CCGAGAAGTTCCTGGTCTGAATCACGAGAATGTGGAGGGGTGGGGGTGTGAGTGGAAGGCATAAGGCTGAGCT
GAGACCAGTTGCTGGTGAACTGGGCCAATCTGGGGAGGGGAACATCCTTGCCAGGGAGTTTCTGAGGGTCTGCT
TTGTTTACCTTTCGTGCGGTGGATTCTTTTTAACTCCGTCTACCTGGCGTTTTGTTAGAAATGTCAGATAGGAAA
ATAAAAACCATTTGAGT

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FIGURE 5291

MEVQKEAQRIMTILSVWKMYHSRMQRGGGLRLHRSIQLSLVMRSARELYLSAKVEALEPEVSLPAALPSDPR LHPPR
EAESTAETATPDGEHPFFPEPMDTQEAPTAEETSACCAPRPAKVSRKRRSSSLSDGGDAGLVPSKKARLEEKEEEE
GASSEVADRLQPPPAQAEGAFP NLARVLQRRFSGLLNCSPAAPTAPPACEAKPACRPADSMNLNVLVRAV VAF

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FIGURE 5292

CAAGTGC GCGCGGACCCCTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACC**ATG**ACCCTGGAGGCGATC
CGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCCAAGCAGAGCCGCTACGAGGCGGTGGGC
TCGGTGCACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGT
CTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGAC
AAGCTGAGCTTCCTCGTCAACGCCCCGGCCCCACCGCTGTCAACATGGCCCGCGCCGCCCGCGACCTGGCTGATGTT
GCAGCCCGGGAGGCCGAACGGGAGGGCGCTACGGAAGAGGCGGTCCGGGAGAGAGTGATCTGCTGCACCGAGGAC
ATGCTGGAGAAAGACCTCAGAGACAACCGAAGCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCC
CCCAGCGGTGGCAAGGTGACTGTGCTGACCCACTGTAACACTGGTGCTCTGGCCACCGCTGGCTATGGTACAGCC
CTAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATAACAGGCAGAGGGAAGTCCCACTGCGAGGGCCCC
TGGGCGGGACTGTGCTCGGTAAGCCTTTGGCAATCCACGCCCAGACTAGGAGCCTGCACCCCTAACCAATGGACC
ACCCTGTCTGTTTGGCCCTCCCCGGGGCCTTCTCCTGGTGGGTGGGGCCCCCGCAGGTGTGATTCGCTCACTGCA
CAGCCTGGGCCGCCTGGAGCATGCCTTCTGCACAGAGACCCGGCCCTACAACCAGGGAGCCCGGCTGACGGCCTT
TGAGCTGGTCTATGAGCAGATCCC

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FIGURE 5293

MTLEAIRYSRGS LQILDQ LLLPKQSR YEAVGSVHQ AWEAIRAMKVRGAPAIALVGCLSLAVELQAGAGGPGLAAL
VAFVRDKLSFLVTARPTAVNMARAARDLADVAAREAREGATEEAVRERVICCTEDMLEKD LRDNRSIGDLGARH
LLERVAPSGGKVTVLTHCNTGALATAGYGTALGVIRSLHSLGRLEHAFCTETRPYNQGARLTAFELVYEQIPATL
ITDSMVAAAMAHRGVSAVVVGADRVVANGDTANKVGTYQLAIVAKHHGIPFYVAAPSSCDLRLETGKEIIIEER
PGQELTDVNGVRIAAPGIGVWNPAFDVTPHDLITGGIITELGVFAPEELRTALTTTISRDTLDGPQM

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FIGURE 5294

GAATTAAAAAAAAAAAAAGCCTTATTTATTATCATTTTCCCCACCGTTGGCATGGCAACACAGGCGTATACTGA
GCTACAGGCAGCCCCGCCACCATCCCAGCCGCCACAGCCCCGCCACAAGCCCAGCCCCAGCCGCCACCGCCACC
ACCCCCAGCGGCACCCCCAGCCCCCGCAGCCACCCACCGCTGCTGCCACCCCTCAGCCCCAATATGTACCCGAGCT
GCAGAGCCCCCAGCCCCAGGCACAGCCACCGGGTGGCCAGAAGCAGTACGTGACGGAGCTCCCGGCTGTACCCGC
ACCTTCGCAGCCAACCGGTGCACCCACCCCTTCGCCTGCACCCACAGCAGTACATCGTGGTCACTGTCTCTGAAGG
TGCCATGCGGGCCAGCGAGACAGTGTGCGAGGCCAGCCCCGGCTCCACCGCCAGCCAGACCGGCGTTCCCTACTCA
GGTGGTTCAGCAGGTGCAGGGCACCCAGCAGCGGTGCTGGTCCAGACGAGCGTGCAGGCCAAGCCAGGCCACGT
GTCGCCCCCTCAGCTGACCAACATCCAAGTGCCCCAGCAGGCTCTTCCACGCAGCGTCTGGTGGTGCAGAGCGC
AGCCCCAGGCAGCAAAGGTGGCCAGGTCTCCCTGACGGTCCATGGTACCCAGCAGGTGCACTCGCCCCAGAGCA
GTCGCGGGTGCAGGCCAACAGCTCTTCCAGCAAGACAGCCGGGGCCCCACGGGCACAGTGCCACAGCAGCTGCA
GGTCCACGGCGTCCAGCAGAGTGTCCCCGTACCCCAAGAGAGATCTGTGGTCCAGGCCACTCCACAAGCGCCCAA
ACCCGGCCCCGTGCAGCCGCTGACCGTGCAGGGCCTCCAGCCAGTCCACGTGGCTCAAGAGGTGCAGCAGCTCCA
GCAGGTGCCCCGTCCACACGTGTACTCCAGCCAGGTGCAGTATGTGGAGGGCGGCGATGCCAGCTACACGGCCAG
TGCCATCCGTTCCAGCACCTACTCCTATCCCAGAGACGCCGTGTACACGCAGACGGCAAGCACCAGCTACTACGA
GGCCGCAGGCACGGCCACCCAGGTGAGCACCCCCGCCACCTCCAGGCGGTGGCCAGCAGTGGCTCCATGCCCAT
GTACGTGTCCGGCAGCCAGGTGCTCGCCAGCTCCACCAGCACTGGGGCTGGGGCCAGCAACAGCAGCGGAGGTGG
TGGCAGTGGTGGTGGCGGCGGCGGGGGAGGCGGTGGCGGGGGTGGCAGTGGCAGCACCAGGAGGCGGCGGCAG
CGGAGCAGGCACCTACGTGATCCAAGGCGGCTACATGCTGGGCAGTGGCAGCCAGTCTTACTCTCACACCACCCG
TGCCTCGCCAGCCACGGTCCAGTGGCTCCTGGACAATATGAGACGGCTGAGGGCGTGAGTCTGCCACGGAGCAC
CCTCTACTGCCACTACTTACTGCACTGCCAGGAGCAGAAGCTGGAGCCCGTCAACGCCCGCTCCTTCGGCAAGCT
CATCCGCTCCGTCTTTCATGGGCCTGCGAACCCGCCGTCTGGGCACCAGGGGCAACTCCAAGTACCCTACTATGG
CCTGCGCATCAAGGCCAGCTCACCCCTGCTGCGGCTGATGGAGGACCAGCAGCACATGGCCATGCGGGGCCAGCC
CTTCTCGCAGAAGCAGAGGCTCAAGCCCATCCAGAAGATGGAAGGCATGACCAACGGCGTGGCGGTGGGGCAGCA
GCCGAGCAGGGGGCTGTGCGACATCAGCGCCAGGTGCAGCAGTACCAGCAATTTTTGGATGCCTCTCGGAGCCT
CCCTGACTTCACAGAGCTCGACCTCCAGGGCAAGGTGCTGCCTGAGGGCGTTCGGGCCCCGGGACATCAAAGCCTT
CCAGGTCTGTACCGGGAACACTGTGAGGCCATTGTCGACGTATGGTGAACCTGCAGTTACCCCTGGTGGAGAC
GCTGTGGAAGACCTTCTGGAGGTACAACCTCAGCCAGCCAGTGAGGCGCCACCGCTGGCTGTACATGACGAGGC
CGAGAAGCGACTGCCCAAAGCCATCCTGGTGCTCCTCTCCAAGTTCGAGCCCGTGTCTCAATGGACCAAGCACTG
TGACAACGTGCTGTACAGGGCCTGGTGGAAATCCTCATTCCCGACGTGCTGCGGCCCATCCCCAGTGCCTTGAC
CCAAGCGATCCGGAACCTTTGCCAAGAGCCTGGAGAGCTGGCTCACCCACGCCATGGTCAACATCCCCAGGAGAT
GCTGCGGGTGAAGGTGGCCGCGGCTGGCGCCTTCGCGCAGACACTGCGGCGCTACACGTGCTCAACCACCTGGC
GCAGGCGGCGCGCTGTGCTGCAGAACCCGCACAGATCAACCAGATGCTGAGCGACCTCAACCGCGTGGACTT
CGCCAACGTGCAGGAGCAGGCCTCGTGGGTGTGCCGTGCGAGGACCGCGTGGTGCAGCGGCTGGAGCAGGACTT
CAAGGTGACGCTGCAGCAGCAGAACTCGCTGGAGCAGTGGGCGGCCTGGCTGGACGGCGTGGTGGAGCCAGGTGCT
CAAGCCCTACCAGGGCAGCGCCGGCTTCCCCAAGGCCGCCAAGCTCTTCTCCTCAAGTGGTCTTCTACAGCTC
CATGGTGTATCCGGGACCTGACCTGCGCAGCGCGCCAGCTTCGGTTCCTTCCACCTCATCCGGCTGCTCTACGA
CGAGTACATGTACTACCTGATCGAGCACCGCGTAGCCCAGGCCAAGGGCGAGACCCCCATCGCCGTATGGGCGA
GTTTCGCCAATCTGGCCACCTCCCTGAACCCCTGGACCCCGACAAAGACGAGGAGGAAGAAGAGGAGGAGGAGAG
CGAGGACGAGCTGCCGCAGGACATCTCACTGGCGGCTGGCGGCGAGTACCCGCGCTGGGCCCCGAGACCCCTGGA
GCCGCCGGCCAAGCTGGCGCGGACTGACGCGCGCGGCCTCTTCGTGCAGGCGCTGCCCTCCAGCTAAGCCCTTGG
CCTCCCCGCCCCACCCGCCCCCGCCACCCCTCCACGCCAGGTGCC

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FIGURE 5295

CGCGTCCGCCGATTCCCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGC
ACATGAGAAGATCTGGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCC
TGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCAGCCGGAGACCACAGCGAGCTCGTTGTCCGGATCGCCAGTC
TGGAAGTGGAGAACCAGAGCCTGCGTGGCGTGGTACAGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCAGC
TGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGGCCACGGCCCCGCAGACCCAGCACGTGTCTCCTATGCGCC
AAGTGGAGTCCCCGGCCAAGAAGCCAGCCTCACCAGCAGAGGATGACGAGGATGATGACATCGACCTGTTTGGCA
GCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGGCAGTACGCGGAGAAGGCCA
AGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGGGACGATGAGACGGACATGGCCC
AGCTGGAGGCCTGTGTGCGCTCTATC

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FIGURE 5296

MATNFLAHEKIWFDFKYDDAERRFYQQMNRPVAGASRQSSGPGASSGPGSDHSELVVRIASLEVENQSLRGVVQ
ELQQAISKLEAQLNVLEKSSPGHRATAPQTQHVSEPMRQVESPAKKPASPAEDDEDDIDLFGSDNEEEDKEAAQL
REERLRQYAEKAKKPALVAKSSILLDVKPWDDETDMAQLEACVRSIELDGLVWGTSKLMPVGYGIRKLQIQCVVE
DDKVGTYLLEEEITKFEEHVQSVDIAAFNKI

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FIGURE 5297

CCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCT
GGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCCTGTGGCAGGTGCCT
CCCGCCAGGAGAACGGCGCCAGCGTGATCCTCCATGACATTGCAAGAAGCCAGCCTCACCAGCAGAGGATGACGA
GGATGATGACATCGACCTGTTTGGCAGCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCG
GCTACGGCAGTACGCGGAGAAGGCCAAGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCC
TTGGGACGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCGAGCTGGACGGGCTGGTCTGGGG
GACCTCCAAGCTGATGCCCCTGGGCTACGGTATCCGGAAGCTACAGATTTCAGTGTGTGGTGGAGGACGACAAGGT
GGGGACTTACTTGCTGGAGGAGGAGATCACTAAATTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAA
CAAGATCTGAAGCCTGAGTGTGTGTATGTGTGCGCGTGCCTAAGGCCCTGCCACGATTAAAGACTGAGACCGGC

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FIGURE 5298

CAGTGXGCTCCGGGCGCCGGCGCCGAGCCAGCACCCGCGCGCCGAGCTCCGGGACCGGCCCCGGCGCCGCGCCG
CCGCGATGGGCAACGCCGCCGCCGCCAAGAAGGGCAGCGAGCAGGAGAGCGTGAAAGAATTCTTAGCCAAAGCCA
AAGAAGATTTTCTTAAAAAATGGGAAAGTCCCGCTCAGAACACAGCCCACTTGATCAGTTTGAACGAATCAAGA
CCCTCGGCACGGGCTCCTTCGGGCGGGTGATGCTGGTGAAACACAAGGAGACCGGGAACCACTATGCCATGAAGA
TCCTCGACAAACAGAAGGTGGTGAAACTGAAACAGATCGAACACACCCTGAATGAAAAGCGCATCCTGCAAGCTG
TCAACTTTCCGTTCTCGTCAAACTCGAGTTCTCCTTCAAGGACAACCTCAAACCTATACATGGTCATGGAGTACG
TGCCCCGCGGGGAGATGTTCTCACACCTACGGCGGATCGGAAGGTTAGTGAGCCCCATGCCCGTTTCTACGCGG
CCCAGATCGTCCTGACCTTTGAGTATCTGCACTCGCTGGATCTCATCTACAGGGACCTGAAGCCGGAGAATCTGC
TCATTGACCAGCAGGGCTACATTCAGGTGACAGACTTCGGTTTCGCCAAGCGCGTGAAGGGCCGCACTTGGACCT
TGTGCGGCACCCCTGAGTACCTGGCCCTGAGATTATCCTGAGCAAAGGCTACAACAAGGCCGTGGACTGGTGGG
CCCTGGGGGTTCTTATCTATGAAATGGCCGCTGGCTACCCGCCCTTCTTCGCAGACCAGCCCATCCAGATCTATG
AGAAGATCGTCTCTGGGAAGGTGCGCTTCCCTTCCCACTTCAGCTCTGACTTGAAGGACCTGCTGCGGAACCTCC
TGCAGGTAGATCTCACCAAGCGCTTTGGGAACCTCAAGAATGGGGTCAACGATATCAAGAACCACAAGTGGTTTG
CCACAACCTGACTGGATTGCCATCTACCAGAGGAAGGTGGAAGCTCCCTTCATACCAAAGTTTAAAGGCCCTGGGG
ATACGAGTAACTTTGACGACTATGAGGAAGAAGAAATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTTT
CTGAGTTTTAGGGGCATGCCTGTGCCCCCATGGGTTTTCTTTTTTCTTTTTTCTTTTTTTGGTGGGGGGGGTGG
GAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTCTTGCATCTAATTTACCCCCACCCACCCCTCCAGGGT
TAGGGGGAGCAGGAAGCCAGATAATCAGAGGGACAGAAACACCAGCTGCTCCCCCTCATCCCTTACCCCTCCT
GCCCCCTCTCCCACTTTTCCCTTCCCTCTTTCCCCACAGCCCCCAGCCCCCTCAGCCCTCCAGCCCACTTCTGCC
TGTTTTAAACGAGTTTTCTCAACTCCAGTCAGACCAGGTCTTGCTGGTGATCCAGGGACAGGGTATGGAAGAGG
GGCTCACGCTTAACTCCAGCCCCCACCACACCCCATCCACCCAACCACAGGCCCCACTTGCTAAGGGCAAAT
GAACGAAGCGCCAACCTTCCCTTTCGGAGTAATCTGCCTGGGAAGGAGAGATTTTAGTGACATGTTAGTGGGT
TGCTTGCTAGAATTTTTTTAAAAAACAACAATTTAAAATCTTATTTAAGTTCACCAGTGCTCCCTCCCTCCT
TCCTCTACTCCCACTCCCATGTCCCCCATTCCTCAAATCCATTTTAAAGAGAAGCAGACTGACTTTGGAAA
GGGAGGCGCTGGGGTTTGAACCTCCCGCTGCTAATCTCCCTGGGCCCCCTCCCGGGGAATCCTCTCTGCCAAT
CCTGCGAGGGTCTAGGCCCCCTTAGGAAGCCTCCGCTCTCTTTTCCCAACAGACCTGTCTTCACCTTGGGCT
TTGAAAGCCAGACAAAGCAGCTGCCCCCTCTCCCTGCCAAAGAGGAGTCATCCCCAAAAAGACAGAGGGGGAGCC
CCAAGCCCAAGTCTTTCCTCCAGCAGCGTTTCCCCCAACTCCTTAATTTTATTCTCCGCTAGATTTTAACGTC
CAGCCTTCCCTCAGCTGAGTGGGGAGGGCATCCCTGCAAAAGGGAACAGAAGAGGCCAAGTCCCCCAAGCCACG
GCCCCGGGTTCAAGGCTAGAGCTGCTGGGGAGGGGCTGCCTGTTTTACTCACCCACCAGCTTCCGCTCCCCAT
CCTGGGCGCCCCCTCCTCCAGCTTAGCTGTGAGCTGTCCATCACCTCTCCCCCACTTTCTCATTTGTGCTTTTTTC
TCTCGTAATAGAAAAGTGGGGAGCCGCTGGGGAGCCACCCCATTCATCCCCGTATTTCCCCCTCTCATAACTTCT
CCCCATCCCAGGAGGAGTTCTCAGGCCTGGGGTGGGGCCCCGGGTGGGTGCGGGGGCGATTCAACCTGTGTGCTG
CGAAGGACGAGACTTCCTCTTGAACAGTGTGCTGTTGTAAACATATTTGAAAACATTACCAATAAAGTTTGTT

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FIGURE 5299

MGNAAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLQFERIKTLGTGSFGRVMLVKHKETGNHYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVMEYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFEYLHSLDLIYRDLKPENLLIDQQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAT
TDWIAIYQRKVEAPFIPKFKGPGDTSNFDDYEEEEIRVSINEKCGKEFSEF

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FIGURE 5300

AGATTTGAAGGCGGCGCGGACTAGGTGCGCACTTCAGTTCTCGGAGAGAAGAGGCGGGAGTGGACCTGGTCAG
CCCTACCCCACTGACCCCAACCGGACCCAGGCGCGGCCTCCGCCACAGCCACAGCCCCCTGCCCCCTGCTGCGGCGCG
GCGAGGCGAGGCGATGGCCAAGGTGTCGGTGCTGAACGTGGCGGTCCTGGAGAACCCGAGCCCTTTCCACAGCCC
CTTCCGGTTTCGAGATCAGCTTCGAGTGCAGTGAAGCCCTGGCGGACGACCTGGAGTGGAAGATCATTATGTTGG
CTCGGCTGAGAGTGAGGAATTTGATCAGATCCTAGACTCGGTGCTGGTGGGCCCTGTGCCAGCAGGGAGACACAT
GTTTGTCTTTAGGCCGACGCCCCCAACCCATCCCTCATCCCAGAGACTGATGCCGTGGGTGTGACTGTGGTCCT
CATCACCTGCACCTACCATGGACAGGAGTTCATCCGAGTGGGCTACTACGTCAACAACGAGTACCTCAACCCTGA
GCTGCGTGAGAACCCGCCCATGAAGCCAGATTTCTCCAGCTCCAGCGGAACATCTTGGCCTCGAACCCCGGGT
GACCCGCTTCCATATCAACTGGGACAACAACATGGACAGGCTGGAGGCCATAGAGACCCAGGACCCCTCCCTGGG
CTGCGGCCTCCCACTCAACTGCACTCCTATCAAGGGCTTGGGGCTCCCTGGCTGCATCCCTGGCCTCCTCCCTGA
GAACTCCATGGACTGCATCTAACTGCAGGAACCCAGAGTGTCCAGCACGCGGGAGGGGCAACCAGGCCTCCCA
GCGAGTCTTGACAGGGCCCATCTAGAGGACTTTGGGGGCCATCAGCTGCAATCCAGGTCTGTCAAATCAGCCCCCT
AGGAAAGAACAGGCCTTGGGTCTCCCCTAGTCCTGGCCAGAAGGATGATCTCGCTTTTCTCTACAGGCCTATAA
GAAGCAGGTACTTCAGTTCTAAATTCTGACTTGTGTTCTTTTCGTCTTCATAAATTCTAACTAAGGCCACTGTGC
CACTGTGCACCCTTGAGTACCATTGATCCAAAGCTTTCCACAGACCTCCCTGGCCACCTAGAGGCTTTCTTGG
TCAGTGCCTGTCAAGGCTCCAGTCCCTGCTGAGCCAAAGGCTTTGTCAATTCCTTTCTCTTCTGTACATCTGAGCA
GACCCACTCCAGCTTTCTGGTGTACAGGCGGGAATGTTAGTTAGTAGGTAGACTTAGATCCCATTCTGTCTCTG
CTCCCAGGAAGATTCTTAGGTCTCTTCAATCCAGCAGCCCTCCAGAGGTGTGATCAGCAGGATGCTGAGGAA
CCATGTTGCCTTTCTGTCAATCACAGCCACCTTCCTGTTATCTCTAAATGGATCTGGCTTTTCTTGGAGGCTG
CCATGGTTGGAAGATGGTATCAGAGGGCCTGCCTGGGCAGTCTGTCTCCGGGCCAGGGTCAGGGACCCCTCTGCCT
CTGGCAGCCTTAACCTGTCTCTGTAGGACCAGGGTGATTTCAAGCCAGGGAAGCAACTGGGACCCCTGAAAAT
GTCCCTCCCCAGCCCGCTCCCCCTCTCTGTGCCCTGGTCCCCTTGCCGCCATGTGGATGCTGTTGTGATTGCTGT
TTGTATATTATCAAAATGTTTTTATATTAAAAATGTTTGGTCTGAAAAT

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FIGURE 5301

MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSAESEEFDQILDSVLVGPVPAGRHMVFVQ
ADAPNPSLIPETDAVGVTVVLTICTYHGQEFIRVGYVNNAYLNPELRENPPMKPDFSQLQRNILASNPRVTRFH
INWDNNMDRLEAIETQDPSLGCGLPLNCTPIKGLGLPGCIPGLLPENSMDCI

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FIGURE 5302

GGAAGCGCAGCAACTCGTGTCTGAGCGCCCGGCGGAAAACCGAAGTTGGAAGTGTCTCTTAGCAGCGCGCGGAGA
AGAACGGGGAGCCAGCATCATGGCAGAACAGGATGTGGAAAACGATCTTTTGGATTACGATGAAGAGGAAGAGCC
CCAGGCTCCTCAAGAGAGCACACCAGCTCCCCCTAAGAAAAGACATCAAGGGATCCTACGTTTCCATCCACAGCTC
TGGCTTCCGGGACTTTTCTGCTGAAGCCGGAGCTCCTGCGGGCCATCGTGGACTGTGGCTTTGAGCATCCTTCTGA
GGTCCAGCATGAGTGCATTCCCCAGGCCATCCTGGGCATGGACGTCTGTGCCAGGCCAAGTCCGGGATGGGCAA
GACAGCGGTCTTCGTGCTGGCCACCCTACAGCAGATTGAGCCTGTCAACGGACAGGTGACGGTCTGGTCATGTG
CCACACGAGGGAGCTGGCCTTCCAGATCAGCAAGGAATATGAGCGCTTTTCCAAGTACATGCCCAGCGTCAAGGT
GTCTGTGTTCTTCGGTGGTCTCTCCATCAAGAAGGATGAAGAAGTGTGAAGAAGAACTGTCCCCATGTCGTGGT
GGGGACCCCGGGCCGCATCCTGGCGCTCGTGCGGAATAGGAGCTTCAGCCTAAAGAATGTGAAGCACTTTGTGCT
GGACGAGTGTGACAAGATGCTGGAGCAGCTGGACATGCGGCGGGATGTGCAGGAGATCTTCCGCCTGACACCACA
CGAGAAGCAGTGCATGATGTTTCAGCGCCACCCTGAGCAAGGACATCCGGCCTGTGTGCAGGAAGTTCATGCAGGA
TCCCATGGAGGTGTTTGTGGACGACGAGACCAAGCTCACGCTGCACGGCCTGCAGCAGTACTACGTCAAACCTCAA
AGACAGTGAGAAGAACC GCAAGCTCTTTGATCTCTTGGATGTGCTGGAGTTTAAACCAGGTGATAATCTTCGTCAA
GTCAGTGCAGCGCTGCATGGCCCTGGCCCAGCTCCTCGTGGAGCAGAACTTCCCGGCCATCGCCATCCACCGGGG
CATGGCCCAGGAGGAGCGCCTGTCACGCTATCAGCAGTTCAAGGATTTCCAGCGGCGGATCCTGGTGGCCACCAA
TCTGTTTGGCCGGGGATGGACATCGAGCGAGTCAACATCGTCTTTAACTACGACATGCCTGAGGACTCGGACAC
CTACCTGCACCGGGTGGCCCGGGCGGGTCGCTTTGGCACCAAAGGCCTAGCCATCACTTTTGTGTCTGACGAGAA
TGATGCCAAAATCCTCAATGACGTCCAGGACCGGTTTGAAGTTAATGTGGCAGAACTTCCAGAGGAAATCGACAT
CTCCACATACATCGAGCAGAGCCGTAACCACCACGTGCCAGAGCCGCCACCCGGAGCCGCCCGCATGCAGCTT
CACCTCCCTTTCCAGGCGCCACTGTTGAGAAGCTAGAGATTGTATGAGAATAAACTTGTTATTATG

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FIGURE 5303

ACGCGCGCTCCTCTGGCCGCCCTCCCTCCGCGCGGGGACCCCTGGCGGGCGGCAGGAGGACATGGCCAGCGACG
CCGTGCAGAGTGAGCCTCGCAGCTGGTCCCTGCTAGAGCAGCTGGGCCTGGCCGGGGCAGACCTGGCGGGCCCCG
GGGTACAGCAGCAGCTGGAGCTGGAGCGGGAGCGGCTGCGGCGGGAAAATCCGCAAGGAGCTGAAGCTGAAGGAGG
GTGCTGAGAACCTGCGGCGGGCCACCACTGACCTGGGCCGCGAGCCTGGGCCCCGTAGAGCTGCTGCTGCGGGGCT
CCTCGCGCCGCTCGACCTGCTGCACCAGCAGCTGCAGGAGCTGCACGCCACGTGGTGCTTCCCGACCCGGCGG
CCACCCACGATGGCCCCCAGTCCCCTGGTGCGGGTGGCCCCACCTGCTCGGCCACCAACCTGAGCCGCGTGCGCG
GCCTGGAGAAGCAGTTGGCCATTGAGCTGAAGGTGAAGCAGGGGGCGGAGAACATGATCCAGACCTACAGCAATG
GCAGCACCAAGGACCGGAAGCTGCTGCTGCAGACCCAGCAGATGTTGCAGGACAGTAAGACCAAGATTGACATCA
TCCGCATGCAACTCCGCCGGGCGCTGCAGGCCGCGCCAGCTGGAGAACCAGGCAGCCCCGGATGACACCCAAGGGA
GTCCTGACCTGGGGGCTGTGGAGCTGCGCATCGAAGAGCTGCGGCACCACTTCCGAGTGGAGCACGCGGTGGCCG
AGGGTGCCAAGAACGTACTGCGCCTGCTCAGCGCTGCCAAGGCCCGGACCGCAAGGCAGTCAGCGAGGCCCAGG
AGAAATTAACAGAATCCAACCAGAAGCTGGGGCTGCTGCGGGAGGCTCTGGAGCGGAGACTTGGGGAGCTGCCCG
CCGACCACCCCAAGGGGCGGCTGCTGCGAGAAGAGCTCGCTGCGGCCCTCCTCCGCTGCCTTCAGCACCCGCCTGG
CCGGGCCCTTTCCCGCCACGCACTACAGCACCCCTGTGCAAGCCCGCGCCGCTCACAGGGACCTGGAGGTACGAG
TGGTGGGCTGCAGAGACCTCCCAGAGACCATCCCGTGGAACCTACCCCTCAATGGGGGGACCTGGGACCCAG
ACAGCCGCCCCCTTCTGAGCCGCCAGCCCGGGGCTTTACAGCCGAAGCGGAAGCCTCAGTGGCCGGAGCA
GCCTCAAAGCAGAAGCCGAGAACACCACTGAAGTCAGCACTGTGCTTAAGCTGGATAACACAGTGGTGGGGCAGA
CGTCTTGGAAGCCATGTGGCCCCAATGCCTGGGACCAGAGCTTCACTCTGGAGCTGGAAAGGGCACGGGAACTGG
AGTTGGCTGTGTTCTGGCGGGACAGCGGGGCTGTGTGCCCTCAAATTCCTGAAGTTGGAGGATTTCTTGACA
ATGAGAGGCATGAGGTGCAGCTGGACATGGAACCCAGGGCTGCCTGGTGGCTGAGGTACCTTCCGCAACCTG
TCATTGAGAGGATTCTCGGCTCCGACGGCAGAAAGAAAATTTTCTCCAAGCAGCAAGGGAAGGCGTTCCAGCGTG
CTAGGCAGATGAACATCGATGTGCCACGTGGGTGCGGCTGCTCCGGAGGCTCATCCCCAATGCCACGGGCACAG
GCACCTTTAGCCCTGGGGCTTCTCCAGGATCCGAGGCCCGGACCACGGGTGACATATCGGTGGAGAAGCTGAACC
TCGGCACTGACTCGGACAGCTCACCTCAGAAGAGCTCGCGGGATCCTCCTTCCAGCCCATCGAGCCTGAGCTCCC
CCATCCAGGAATCCACTGCTCCCGAGCTGCCTTCGGAGACCCAGGAGACCCAGGCCCCGCCCCTGTGCAGCCCTC
TGAGGAAGTCACCTCTGACCCTCGAAGATTTCAAGTTCTGGCGGTGCTGGGCCGGGGTCATTTTGGGAAGGTGC
TCCTCTCCGAATTCGGCCCCAGTGGGGAGCTGTTCCGCATCAAGGCTCTGAAGAAAGGGGACATTGTGGCCCGAG
ACGAGGTGGAGAGCCTGATGTGTGAGAAGCGGATATTGGCGGCAGTGACCAGTGCGGGACACCCCTTCTGGTGA
ACCTCTTCGGCTGTTTCCAGACACCGGAGCACGTGTGCTTCGTGATGGAGTACTCGGCCGGTGGGGACCTGATGC
TGCACATCCACAGCGACGTGTTCTCTGAGCCCCGTGCCATCTTTTATTCGCCTGCGTGGTGCTGGGCCTACAGT
TTCTTCACGAACACAAGATCGTCTACAGGGACCTGAAGTTGGACAATTTGCTCCTGGACACCGAGGGCTACGTCA
AGATCGCAGACTTTGGCCTCTGCAAGGAGGGGATGGGCTATGGGGACCGGACCAGCACATTCTGTGGGACCCCGG
AGTTCTGGCCCCCTGAGGTGCTGACGGACACGTCTGTACACGCGAGCTGTGGACTGGTGGGGACTGGGTGTGCTGC
TCTACGAGATGCTGGTTGGCGAGTCCCCATTCCCAGGGGATGATGAGGAGGAGGTCTTCGACAGCATCGTCAACG
ACGAGGTTTCGCTACCCCGCTTCTGTGCGCCGAAGCCATCGGCATCATGAGAAGGCTGCTTCGGAGGAACCCAG
AGCGGAGGCTGGGATCTAGCGAGAGAGATGCAGAAGATGTGAAGAAACAGCCCTTCTTCAGGACTCTGGGCTGGG
AAGCCCTGTTGGCCCCGGCGCTGCCACCGCCCTTTGTGCCACGCTGTCCGGCCGCACCGACGTACGCAACTTCG
ACGAGGAGTTACCGGGGAGGCCCCCACACTGAGCCCGCCCCGCGACGCGGGCCCCCTCACAGCCGCGGAGCAGG
CAGCCTTCTGGAATTCGACTTCGTGGCCGGGGGCTGTAGCCCCCTCCCCTGCCCCCTGCCCCCTGCCCCG
AGAGCTCTTAGTTTTTAAAAAGGCCTTTGGGATTTGCCCG

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FIGURE 5304

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRRATTDLGRSLGPVEL
LLRGSSRRDLLHQQLQELHAHVLPDPAATHDGPQSPGAGGPTCSATNLSRVAGLEKQLAIELKVKQGAENMIQ
TYSNGSTKDRKLLLTAAQMLQDSKTKIDIIRMQLRRALQAGQLENQAAPDDTQGSPDLGAVELRIEELRHHFRVE
HAVAEGAKNVLRLLSAAKAPDRKAVSEAQEKLTESNQKLGLLREALERRLGELPADHHPKGRLLREELAAASSAAF
STRLAGPFFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGGPGTPDSRPPFLSRPARGLYSRSGSL
SGRSSLKAEAEANTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFTLELERARELELAVFWRDQRGLCALKFLKLE
DFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQQGKAFQRRARQMNIDVATWVRLRLRLIPN
ATGTGTFSPGASPGSEARTTGDISVEKLNLTGDSDSPQKSSRDPPSSPSSLSSPIQESTAPELPSETQETPGA
LCSPLRKSPLTLEDKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGH
PFLVNLFGCFQTEPHVCFVMEYSAGGDLMLHIHSDVFSEPRAIIFYSACVVLGLQFLHEHKIVYRDLKLDNLLDIT
EGYVKIADFGLCKEGMGYGDRTSTFCGTPEFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESPFPGDDEEEVFD
SIVNDEVRYPRFLSAEAIGIMRLLRRNPERRLGSSERDAEDVKKQPFRTLGWEALLARRLPPPFVPTLSGRTD
VSNFDEEFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

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FIGURE 5305

CACGGGGAGGCGGAGGCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCAGATCTTCTGGTGACCCAC
TTCTCGCTGCTCATGCCGCTGGGACTGGGGCGGCGGAAAAAGGCGCCCCCTCTAGTGGAAAATGAGGAGGCTGAG
CCAGGCCGTGGAGGGCTGGGCGTGGGGGAGCCAGGGCCTCTGGGCGGAGGTGGGTTCGGGGGGCCCCCAAATGGGC
TTGCCCCCCCCCTCCCCAGCCCTGCGGCCCCGCTCGTGTTCCACACCCAGCTGGCCCATGGCAGTCCCCTGAGC
CGCATCGAGGGCTTCACCAACGTCAAGGAGCTGTATGGCAAGATCGCCGAGGCCTTCCGCTGCCAACTGCCGAG
GTGATGTTCTGCACCCTGAACACCCACAAAGTGGACATGGACAAGCTCCTGGGGGGCCAGATCGGGCTGGAGGAC
TTCATCTTCGCCCACGTGAAGGGGCGAGCGCAAGGAGGTGGAGGTGTTCAAGTCGGAGGATGCACCTCGGGCTCACC
ATCACGGACAACGGGGCTGGCTACGCCTTCATCAAGCGCATCAAGGAGGGCAGCGTGATCGACCACATCCACCTC
ATCAGCGTGGGCGACATGATCGAGGCCATTAACGGGCAGAGCCTGCTGGGCTGCCGGCACTACGAGGTGGCCCGG
CTGCTCAAGGAGCTGCCCCGAGGCCGTACCTTCACGCTGAAGCTCACGGAGCCTCGCAAGGCCTTCGACATGATC
AGCCAGCGTTCAGCGGGTGGCCGCCCTGGCTCTGGCCCACTGGGCACTGGCCGAGGGACCCTGCGGCTCCGA
TCCCGGGGCCCCGCCACGGTGGAGGATCTGCCCTCTGCCTTTGAAGAGAAGGCCATTGAGAAGGTGGATGACCTG
CTGGAGAGTTACATGGGTATCAGGGACACGGAGCTGGCGGCCACCATGGTGGAGCTGGGAAAGGACAAAAGGAAC
CCGGATGAGCTGGCCGAGGCCCTGGACGAACGGCTGGGTGACTTTGCCTTCCCTGACGAGTTCGTCTTTGACGTC
TGGGGCGCCATTGGGGACGCCAAGGTCGGCCGCTACTAGGACTGCCCCCGGACCCTGCGATGATGACCCGGGCGC
AACCTGGTGGGGGCCCCCAGCAGGGACACTGACGTCAGGACCCGAGCCTCCAGCCTGAGCCTAGCTCAGCAGCCC
AAGGACGATGGTGAGGGGAGGTGGGGCCAGGCCCCCTGCCCCGCTCCAATCGGTACCATCCCCTCCCTGGTTCCC
AGTCTGGCCGGGGTCCCCGGCCCCCTGTGCCCTGTTCCCCACCTACCTCAGCTGGGTGAGGCACAGGGAGGGGA
GGGATCAGCCAAATTGGGCGGCCACCCCCGCTCCACCACTTTCCACCATCAGCTGCCAACTGGTCCCTCTGTC
TCCCTGGGGCCTTGGGTTCTGTTTGGGGGTATGACCTTCTAGTTTCTGACGCAGGGAATACAGGGGAGAGGG
TTGTCCTTCCCCCAGCAAATGCAATAATGCCCTCACCCCTCCTGAGAGGAGCCCCCTCCCTGTGGAGCCTGTTA
CCTCCGCAATTGACACGAGTCTGCTGTGAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCAT
CCCTGGCCCAGAGCAGGAGGGAGGGAGGGACGATGGCGGTGGGTTTTTGTATCTGAATTGCTGTCTTGAACATA
AAGAACTATCTGCTGTT

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FIGURE 5306

MPLGLGRRKKAPPLVENEEAEPGRGGLGVGEPGLGGGSGGPQMGLPPPPPALRPRLVFHTQLAHGSPTGRIEG
FTNVKELYGKIAEAFRLPTAEVMFCTLNTHKVDMDKLLGGQIGLEDFIFAHVKGQRKEVEVFKSEDALGLTITDN
GAGYAFIKRIKEGSVIDHIHLISVGDMIEAINGQSLLGCRHYEVARLLKELPRGRTFTLKLTEPRKAFDMISQRS
AGGRP GSGPQLGTGRGTLRLRSRGPATVEDLPSAFEKAIEKVDDLLESYMGIRDTELAATMVELGDKRNPDEL
AEALDERLGDFAFPDEFVFDVWGAIGDAKVGRY

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FIGURE 5307

GTTTAGTCTATCGCTGCGGTTGCGAGCGCTGTAGGGAGCCTGTGCTGTGCCGCGCAGTTAGGCAGCAGCAGCCGC
GGAGCAGTAGCCGCCGTGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAA
GCTGTGTTTCTTGGACAAGGTGGAGCCCCACGCCACCATTGCGGAGATCAAGAACCTCTTCACTAAGACCCATCC
GCAGTGGTACCCCGCCCGCCAGTCCCTCCGCCTGGACCCCAAGGGCAAGTCCCTGAAGGATGAGGATGTTCTGCA
GAAGCTGCCCCGTGGGCACCACGGCCACACTGTACTTCCGGGACCTGGGGGGCCAGATCAGCTGGGTGACGGTCTT
CCTAACAGAGTACGCGGGGGCCCCCTTTTCATCTACCTGCTCTTCTACTTCCGAGTGCCCTTCATCTATGGCCACAA
ATATGACTTTACGTCCAGTCGGCATAACAGTGGTGCACCTCGCCTGCATCTGTCACTCATTCCACTACATCAAGCG
CCTGCTGGAGACGCTCTTCGTGCACCGCTTCTCCCATGGCACTATGCCTTTGCGCAACATCTTCAAGAACTGCAC
CTACTACTGGGGCTTCGCCGCGTGGATGGCCTATTACATCAATCACCTCTCTACACTCCCCCTACCTACGGAGC
TCAGCAGGTGAAACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCG
GGACCTGCGGCCCCTGGGTCCAAGACGCGGAAGATCCCATACCCACCAAGAACCCCTTCACGTGGCTCTTCCT
GCTGGTGTCTGCCCCAACTACACCTACGAGGTGGGGTCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCC
AGTGGCCCTGTTCTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAA
GGAGTTCCGGGACTACCCGCCCTGCGCATGCCATCATCCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGC
TCAGCCCCTCAACCCGGTGGCATTCTGGGGGAGGAGTGGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGC
CTGCCCCAGTC

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FIGURE 5308

GGCACGAGGCGGGGCGCCGCTGAGCCAAGTGGGCCACCCGGGCACGGCCACGCTCCCGGGTCACGTGACACGGAG
GGGGCCGAATTCTGCTGGAGGCAGCGCCATATCCTGGAGGTGAAGGTACCACTCATGGAGACCCCCGCGGCCGC
CGCCCCCGCTGGGAGCTTATTCCCCTCCTTCTGCTCCTGGCCTGCGGGACGCTGGTGGCCGCCCTTGCTGGGCGC
CGCTCACCGCCTGGGGCTCTTCTATCAGCTGCTGCACAAGGTGGACAAGGCAAGCGTCCGGCATGGCGGAGAGAA
CGTGGCCCGCTGTGCTGAGGGCCCATGGTGTGCGGTTTCATCTTACGCTGGTGGTGGGCACATTTCCCCGCTGCT
GGTGGCCTGTGAGAACTGGGCATCCGTGTGGTGGACACACGCCATGAGGTACAGGCCGCTTTGCTGCTGATGC
TATGGCCCGCCTGTCCGGGACGGTGGGCGTGGCGGCAGTGACAGCAGGCCCTGGCCTACCAACACGGTGACTGC
GGTGAAGAATGCTCAGATGGCTCAGTCCCCAATCCTGCTTCTGGGTGGGGCTGCCAGCACTCTGCTGCAGAACCG
GGGTGCGCTCCAGGCTGTGATCAGCTGTCCCTTTTCCGGCCACTCTGTAAGTTTTGTGTGTCTGTGCGGAGGGT
GCGGGACATTGTGCCACCCCTGAGGGCCGCGATGGCTGCCGCCAGTGGGCACCCAGGTCCGGTGTGTTGTGGA
GCTGCCCCGTTGACGTGCTGTACCCCTACTTCATGGTCCAGAAGGAGATGGTGCCAGCCAAGCCACCCAAGGGCCT
CGTGGGCCGAGTGGTCTCCTGGTATTTAGAGAATTACCTGGCCAACCTCTTTGCAGGAGCCTGGGAGCCTCAGCC
CGAGGGACCGCTGCCCTGGACATCCCCAGGCTTCCCCGAGCAGGTTTCAGCGCTGTGTGGAGATCCTGAGCCG
GGCCAAGAGGCCTCTGATGGTGTGGGGAGTACAGGCCCTGCTACCCCCAACGTCTGCCGACAAGCTTCGGGCTGC
CGTGGAGACCTTGGGTGTTCCCTGCTTCCCTGGAGGGATGGCACGGGGGCTGTTAGGCCGCAACCACCCCTCCA
CATCCGGGAGAACCGCAGTGGCGCCCTGAAGAAGGCGGACGTCATTGTCTAGCAGGAACTGTGTGTGACTTCCG
CCTATCCTATGGCCGTGTCTCAGCCACAGCAGCAAGATCATCATCGTCAATCGTAATCGGGAAGAGATGTTGCT
CAACTCAGACATCTTCTGGAAGCCCCAGGAGGCTGTGCAGGGAGATGTGGGTTCCCTTCGTGCTGAAGTTAGTGGA
GGGCCTTCAGGGCCAGACCTGGGCCCCAGACTGGGTGGAGGAGCTGCGGGAAGCCGACCGGCAGAAGGAGCAGAC
CTTTCCGGGAGAAGGCAGCGATGCCTGTGGCCCAGCACCTGAACCCAGTGCAGGTGCTGCAGCTGGTGGAGGAAAC
GCTACCTGACAACTCAATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCCATCTGGTACAGCCCCG
CGGCCCCCTGCGCTGGCTCGATCCTGGGGCCTTTGGGACTCTGGGAGTTGGTGCAGGATTTGCACTTGGGGCCAA
GCTGTGCCGGCCAGATGCTGAGGTCTGGTGCCTGTTTGGGGACGGAGCTTTTGGCTACAGCCTCATCGAATTTGA
TACATTCTGTCAGACACAAGATCCCAGTGATGGCCTTGGTAGGGAATGATGCTGGCTGGACACAGATTTCTCGGGA
GCAGGTGCCCTCTCTGGGCAGCAACGTGGCCTGTGGCCTGGCCTACACTGATTATCACAAGGCAGCCATGGGTCT
GGGGGCCCCGGGCTTGCTGCTCTCACGGGAGAACGAGGATCAGGTGGTCAAGGTGCTGCACGATGCCAGCAGCA
GTGCCGAGACGGCCACCCGTTGTGGTCAACATCCTCATTGGGAGGACGGACTTCCGCGATGGCTCCATTGCTGT
ATAGGGCCTTGTGGGTGAGGACGCTTGGCTGCCTTCCCTCCCCCTGGACTGTGTCCAGCTGGTTTGGAGTCTCATC
ATTGCTTGCCCTGGGCCTATCCCATGAGGCCAGTGACTCCACAACCTCCCTGAGGAGGGGATGGAGGGGTCAA
TCTCAGAGAGGCTCTTGTGAGCTCTTGGACCCTCCTCTTACGGACCCAACTGTGCCGTTTGTCCCCTCTCTT
ATGGAGACTGAATAAACCACTCTGGCCCATGTAGGCCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5309

METPAAAAPAGSLFPSFLLACGTLVAALLGAAHRLGLFYQLLHKVDKASVRHGGENVA AVLRAHGVRFI FTLVG
GHISPLL VACEKLGIRVVDTRHEVTAVFAADAMARLSGTVGVAAV TAGPGLTNTVTAVKNAQMAQSPILLGGAA
STLLQNRGALQAVDQLSLFRPLCKFCVSVRRVRDIVPTLRAAMAAAQSGTPGPVFVELPVDVLYPYFMVQKEMVP
AKPPKGLVGRVVS WYLENYLANLFAGAWEPQPEGPLPLDIPQASPQQVQRCVEILSRAKRPLMVLGSQALLTPTS
ADKLRAAVETLGVPCFLGGMARGLLGRNHPLHIRENRS AALKKADVIVLAGTVCDFRLSYGRVLSHSSKIIIVNR
NREEMLLNSDIFWK PQEAVQGDVG SFVLKLVEGLQGQ TWAPDWVEELREADRQKEQTFREKAAMPVAQHLPVQV
LQLVEETLPD NSILVVDGGDFVGTA AHLVQPRGPLRWLDPGAFGTLGVGAGFALGAKLCRPDAEVWCFLFGDGAFG
YSLIEFDTFVRHKIPVMALVGNDAGWTQISREQVPSLGSNVACGLAYTDYHKAAMGLGARGLLLSRENEDQVVKV
LHDAQQQCRDGH PVVNNILIGRTDFRDGSI AV

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FIGURE 5310A

GCGGCGCGGAGGCTGGCCCCGGGACGCGCCCGGAGCCAGGGAAGGAGGGAGGAGGGGAGGGTTCGCGGCCGGCCGC
CATGGGGCCGGGGGCCCCGTGGCCGCGCGCCGCGCCGTGCGCCGATGTGCGCCGCCACCGCCACCGCCACCCGTGCG
GGCGCTGCCCCCTGCTGCTGCTAGCGGGGCGGGGGCTGCAGCCCCCCTTGCTGACGGAAGCCCGTGTGC
AAATGGAGGTGCTTGACCCAGCTGCCCTCCCGGGAGGCTGCCTGCCTGTGCCCCGCTGGCTGGGTGGGTGAGCG
GTGTGAGCTGGAGGACCCCTGTCACTCAGGCCCCGTGTGCTGGCCGTGGTGTCTGCCAGAGTTCAGTGGTGGCTGG
CACCGCCCGATTCTCATGCCGTGCCCCGTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCTCAG
CAGCCCTTGTGCCACGGTGCCCGTGTCTAGTGGGGCCCGATGGACGCTTCCTCTGCTCCTGCCACCTGGCTA
CCAGGGCCCGCAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGCACCTGCCT
CAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCGCGGTGCC
CTGTGCACCCCTACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCCTGTCT
TCCTGGGTTTGAGGGTCAGAATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGGAC
ATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCCTCCTGAGTGGACAGGCCAGTTCGTGACGGAGGACGT
GGATGAGTGTGAGCTGCAGCCCAACGCCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGCTG
CGTGTGTGTCAATGGCTGGACAGGCGAGAGCTGCAGTCAAGATATCGATGACTGTGCCACAGCCGTGTGCTTCCA
TGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCTGCCCCATGGGCAAGACTGGCCTCCTGTGTCA
CCTGGATGACGCTGTGTGTCAGCAACCCCTGCCACGAGGATGTATCTGTGACACAAATCCGGTGAACGGCCGGGC
CATTTGCACCTGTCTCCCGGCTTCACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCCAA
CCCCTGCGAGCACTTGGGCAGGTGCGTGAACACGAGGGCTCCTTCTGTGCCAGTGCAGTGTGCTGACTGAC
ACCTCGTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGCCCTGCCGAAACAGGCCACGTGCCTCGACCGCAT
AGGCCAGTTCACCTGTATCTGTATGGCAGGCTTCACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAGAG
TAGCCCCCTGTGTCAACGGTGGGGTCTGCAAGGACCGAGTCAATGGCTTCAGCTGCACCTGCCCTCGGGCTTCAG
CGGCTCCACGTGTGAGCTGGACGTGGACGAATGCCAGCACGCCCTGCAGGAATGGCGCCAAATGCGTGGACCA
GCCCCGATGGCTACGAGTGGCGCTGTGCCGAGGGCTTTGAGGGCACGCTGTGTGATCGCAACGTGGACGACTGCTC
CCCTGACCCATGCCACCATGGTGCCTGCGTGGATGGCATGCCAGCTTCTCATGTGCCTGTGCTCCTGGCTACAC
GGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGAGCCAGCCCTGCCGCCATGGCGGCAATGCCTAGACCT
GGTGGACAAGTACCTCTGCCGCTGCCCTTCTGGGACCACAGGTGTGAACTGCGAAGTGAACATTGACGACTGTGC
CAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCCAACCTGGCTTCAC
AGGGCCCCCTTTGTAACGTGGAGATCAATGAGTGTGCTTCCAGCCCATGCGGCGAGGGAGTTTCTGTGTGGATGG
GGAAAAATGGCTTCCGCTGCCTCTGCCGCTGGCTCCTTGCCCCCACTCTGCCTCCCCCGAGCCATCCCTGTGC
CCATGAGCCCTGCAGTACGGCATCTGCTATGATGCACCTGGCGGGTTCCGCTGTGTGTGAGCCTGGCTGGAG
TGGCCCCCGCTGCAGCCAGAGCCTGGCCGAGACGCTGTGAGTCCAGCCGTGCAGGGCCGGTGGGACATGCAG
CAGCGATGGAATGGGTTTCCACTGCACCTGCCCGCCTGGTGTCCAGGGACGTGAGTGTGAATCCTCTCCCCCTG
CACCCCGAACCCCTGTGAGCATGGGGGCGCTGCGAGTCTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCCCA
GGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGCACCTGTGGCCCTCATGGTAT
CTGCACCAACCTGGCAGGGAGTTTTCAGCTGCACCTGCCATGGAGGGTACACTGGCCCTTCTGCGATCAGGACAT
CAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAAGACGGCGTGGGCTCCTTTTCTGCTCCTG
CCTCCCTGGTTTCGCCGGCCACGATGCGCCCGCGATGTGGATGAGTGCCTGAGCAACCCCTGCGGCCCGGGCAC
CTGTACCGACCACGTGGCCTCCTTCACCTGCACCTGCCCGCCAGGCTACGGAGGCTTCCACTGCGAACAGGACCT
GCCCCGACTGCAGCCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAATCGTTTCACTGCTGTG
CCGTCCCGGCTACACAGGAGCCCACTGCCAACATGAGGCAGACCCCTGCCTCTCGCGGCCCTGCCTACACGGGGG
CGTCTGCAGCGCCGCCCACCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTACGGGGCCCGAGTGCCAGACGCT
GGTGGATTGGTGCAGCCGCCAGCCTTGTCAAAACGGGGGTGCTGCGTCCAGACTGGGGCCTATTGCCTTTGTCC
CCCTGGATGGAGCGGACGCCTCTGTGACATCCGAAGCTTGCCCTGCAGGGAGGCCGAGCCAGATCGGGGTGCG
GCTGGAGCAGCTGTGTGAGCGGGTGGGCAGTGTGTGGATGAAGACAGCTCCCACTACTGCGTGTGCCAGAGGG
CCGTAAGTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCCGACCCCTGCCAGCATGGGGGGACCTGCCG
TGGCTATATGGGGGGCTACATGTGTGAGTGTCTTCTGCTTACAATGGTGATAACTGTGAGGACGACGTGGACGA
GTGTGCCCTCCAGCCCTGCCAGCACGGGGGTTTCATGCATTGACCTCGTGGCCCGCTATCTCTGCTCCTGTCCCC
AGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCCCG

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FIGURE 5310B

GTGCTACACAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCCAGGATACACTGGTTT
GCGCTGCGAGGCAGACATCAATGAGTGTGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAGGA
CCCAGGCGGAGGTTTCCGTTGCCTTTGTGTCATGCTGGCTTCTCAGGTCCTCGCTGTGAGACTGTCTGTCTCCCTG
CGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCGTCCTAGCCCGGGTCTGGGGGTGGGCTGACCTTCACCTG
TCACTGTGCCCAGCCGTTTCTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCCTGCCGGGAGCTGCAGTGCCCGGT
GGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCCTGCCCCCAGGGTTGTGCGGACCCCTCCTGCCG
CAGCTTCCCGGGGTGCGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCCCTGTCTCCACGGGGGCTCCTG
CCGCCCCGCGCCGCTGCGCGCCCTTCTTCCGCTGCGCTTGCGCGCAGGGCTGGACCGGGCCGCGCTGCGAGGCGCC
CGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACCAGCG
CTGCGACCGCGAGTGCAACAGCCAGGCTGCGGCTGGGACGGCGGCGACTGCTCGCTGAGCGTGGGCGACCCCTG
GCGGCAATGCGAGGCGCTGCAGTGCTGGCGCTCTTCAACAACAGCCGCTGCGACCCCGCTGCAGCTCGCCCGC
CTGCTCTACGACAACCTCGACTGCCACGCCGCTGGCGCGAGCGCACTTGCAACCCGGTGTACGAGAAGTACTG
CGCCGACCACTTTGCCGACGGCCGCTGCGACCAGGGCTGCAACACGGAGGAGTGCAGCTGGGATGGGCTGGATTG
TGCCAGCGAGGTGCCGGCCCTGCTGGCCCGCGCGCTGCTGGTGCTCACAGTGCTGCTGCCGCCAGAGGAGCTACT
GCGTTCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCCTGCGCACCTCGCTGCGCTTCCGCTGGACGCGCA
CGGCCAGGCCATGGTCTTCCCTTACCACCGGCTAGTCTGGCTCCGAACCCGGGCCCCGTCGGGAGCTGGCCCC
CGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGCTCTGCCTGCAGTCGCTGAGAATGATCACTG
CTTCCCCGATGCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTGAGCGGTGGAGCGCCTGGACTTCCCGTACCC
ACTGCGGGACGTGCGGGGGGAGCCGCTGGAGCCTCCAGAACCCAGCGTCCCGCTGCTGCCACTGCTAGTGGCGGG
CGCTGTCTTGCTGCTGGTCACTTCTGCTCCTGGGTGTGATGGTGGCCCGGCGCAAGCGCGAGCACAGACCCCTCTG
GTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCCTCTGGTCAACAAGGGCCGCGGGGAACCCGTGGGCCAGGA
CGCGCTGGGCATGAAGAACATGGCCAAGGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACAGA
GTGCCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGCATGGGGGCTGAGGAGGCTGTGGATTGCCGTGAGTG
GACTCAACACCATCTGGTTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACCACAGGGCGACGC
AGATGCTGATGGCATGGATGTCAATGTGCTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCCTTCTGTGG
GGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTGAT
CTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTTGCACCTGGCTGCCCGTTATGC
CCGTGCTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCAGGACCACTCAGGCCGCACTCC
CCTGCACACAGCTGTACAGCCGATGCCAGGGTGTCTTCCAGATTCTCATCCGAAACCGCTCTACAGACTTGGA
TGCCCGCATGGCAGATGGCTCAACGGCACTGATCCTGGCGGCCCGCCTGGCAGTAGAGGGCATGGTGGAGAGCT
CATCGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTGAA
CAACGTGGAAGCCACTTTGGCCCTGCTCAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACCCC
CCTATTCTGGCGCCCGGAGGGCAGCTATGAGGCTGCCAAGCTGCTGTTGGACCACTTTGCCAACCGTGAGAT
CACCGACCACCTGGACAGGCTGCCGCGGGACGTAGCCCAGGAGAGACTGCACCAGGACATCGTGCGCTTGCTGGA
TCAACCCAGTGGGCCCCGAGCCCCCGGTCCCCACGGCCTGGGGCCTCTGCTCTGTCTCCAGGGGGCCTTCCT
CCCTGGCCTCAAAGCGGCACAGTCGGGGTCCAAGAAGAGCAGGAGGCCCCCGGGAAGGCGGGGCTGGGGCCGCA
GGGGCCCCGGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCGGGGCCCCCTGGCTGACAGCTCGGTCACGCTGTC
GCCCCGTGGACTCGCTGGACTCCCCGCGGCTTTCCGTGGGCCCCCTGCTTCCCCTGGTGGCTTCCCCCTTGAGGG
GCCCTATGCAGCTGCCACTGCCACTGCAGTGCTCTGGCACAGCTTGGTGGCCAGGCGGGGCGGGTCTAGGGCG
CCAGCCCCCTGGAGGATGTGTACTCAGCCTGGGCTGCTGAACCTGTGGCTGTGCCCCCTCGATTGGGCCCCGGCT
GCCCCACCTGCCCCCTCAGGCCCCCTCGTTCTGTGCTGCCACTGGCGCCGGGACCCCACTGCTCAACCCAGGGAC
CCCCGTCTCCCCGAGGAGCGGCCCCCGCCTTACCTGGCAGTCCCAGGACATGGCGAGGAGTACCCGGCGGGCTGG
GGCACACAGCAGCCCCCAAGGCCCGCTTCTGCGGGTTCAGTGAGCACCCCTTACCTGACCCCATCCCCGA
ATCCCCCTGAGCACTGGGCCAGCCCCCTCACCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCAGCCAC
TGCCACTGGGGCCATGGCCACCACCACTGGGGCACTGCCTGCCAGCCACTTCCCTTGTCTGTTCCAGCTCCCT
TGCTCAGGCCCAGACCCAGCTGGGGCCCCAGCCGGAAGTTACCCCAAGAGGCAAGTGTGGCCTGAGACGCTCG
TCAGTTCTTAGATCTTGGGGGCTAAAGAGACCCCGTCTGCCTCCTTTCTTTCTGTCTCTTCCCTCCTTTT
AGTCTTTTTTCATCCTCTTCTCTTTCCACCAACCCCTCCTGCATCCTTGCTTGAGCGTGACCGAGATAGGTCATC

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FIGURE 5310C

AGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCCTCTCAGTCTTGTGAAGAGTC
TGGGACCTCCTTCTTCCCCACTTCTCTCTCCCTCATTCTTTCTCTCTCCTTCTGGCCTCTCATTTCCTTACAC
TCTGACATGAATGAATTATTATTATTTTATTTTCTTTTTTTTTTTTACATTTTGTATAGAAACAAATTCATTTA
AACAAACTTATTATTATTATTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGTGC
CCCCGTGGGGCTGAGTCTGTGGGCCCATTCGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGGGA
TCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCTTGGGCGCACCCACTGGGGCCAGGGGTC
GGGGGAGTGTTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATGGGACATGTTCCATAG
CCTTGCTGGGGAAGGGCCCACTGCCAACTCCCTCTGCCCCAGCCCCACCCTTGGCCATCTCCCTTTGGGAACTAG
GGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCCTTGTGTCCCTGTAAATGTGGGACTACAA
GAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCTGGAATCCTCTGGCCCAGCCTCATGGCAGAATAGAGGTAT
TTTTAGGCTATTTTGTAAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTACA
GCCCCCACTCCCTCACCACCTAATAAAGGAATAGTTAACTC

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FIGURE 5311

CTTTTCACAAGATGGTGCCGAAAGTGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCCGAAGCCAAAGCGAAGGCTT
TAAAGGCCAAGAAGGCAGTGTGAAAGGTGTCCACAGCCACAAAAAGAAGATCCACACGTCACCCACCTTCCGGC
GGCCGAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAGCTTGACC
ACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGT
TCATTGTGGATGTTAAAGCCAACAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACATTGATGTGGCCA
AGGTCAACACCCTGATTTCGGCCTGATGGAGAGAAGAAGGTATATGTTGACTGACTCCTGATTACGATGCTTTGG
ATGTTGCCAACTATATCTTTTCACCATATACATGCCTCTCTGTCAATTTCTGGTTGGGCTGGGAGGCCACACACA
GACACTGACATGACAGGGCTTGGGCAAGACTCCTGTTCTACTTATCCTTTTGAAATATTACCCCTGCCA

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FIGURE 5312

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGC GCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGCGCGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAACTTGCCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACTTAAGTATATATAAGCAAAAACAGAAGAGTCTTGTTCCAACAG
AACTCTGGAGCTCCGTGGGTCTTTCTCTTCTCTGTAAGAAGTTCCTTTTGTTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTTTCAGCTCTCTTATTTTTTTCCTTAAGTAGCATTATTCCT
AAGGTAGGCAGGGTATTTCCTAGTAAGCATACTTTCTTAAGACGGAGGCCATTGTTTCCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTT
CATTCTAAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTTCGCTGTAAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTCAGGAGTTCGAGACCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACACAGCGCTCCAGCCTGGTTCGACAGAGTGAGACTCCATCTCAAGAAAAATA
AAAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTCAGGTCAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAAACTGGCCCAACTTCATTTCCTACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 5313

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAekaADESERGMKVienRAMDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERAES
ELKCGDLEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLKLA
QAKEENVGLHQTLTDQTLNELNCI

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FIGURE 5314

GCTCGGTGCTGATGGACGGTGCTGGTGGCCAGTGGAGAGGCGCTGGCCGCACTTCCCGTCGGGGAGAGAGTGTAAT
TATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGGTGGGGAAGACCTGTGTCCCT
GTTCCGCTTCTCCGAGGACGCCTTCAACTCCACTTTTATCTCCACCATAGGAATTGACTTTAAAAATTAGGACCAT
AGAGCTCGATGGCAAGAGAATTAAACTGCAGATATGGGACACAGCCGGTCAGGAACGGTTTCGGACGATCACAAAC
GGCCTACTACAGGGGTGCAATGGGCATCATGCTGGTCTACGACATCACCAACGAGAAGTCCTTCGACAACATCCG
GAACTGGATTGCGAACATTGAGGAGCACGCCTCTGCAGACGTCGAAAAGATGATACTCGGGGAACAAGTGTGATGT
GAATGACAAGAGACAAGTTTCCAAGGAACGGGGAGAAAAGCTGGCCCTCGACTATGGAATCAAGTTCATGGAGAC
CAGCGCGAAGGCCAACATCAATGTGGAATAATGCATTTTTCTACTCTCGCCAGAGATATCAAAGCAAAAAATGGACAA
AAAATTGGAAGGCAACAGCCCCAGGGGAGCAACCAGGGAGTCAAAATCACACCGGACCAGCAGAAGAGGAGCAG
CTTTTTCCGATGTGTTCTTCT**GTGA**GAACACCGCCTTACTCTGAGCCTCGCTCAGCCCAGCTGACTGTGCCTGT
TCTGAGTGAGCCCCCTCACTCAGCCGGGGCCCTCCACCTCCAACGCCCCGCCACGCCGCGCCACCGGGCCCAC
GGCCACCAGAATGCAATTGAGAAATCGTTTATTTTAGTAACTGTCTGATCTTTTTCAACTTTGGAGATGGAATAA
GTTAAAAATTTGCTATTTTTCTGTAAACATCTGCTGAACGGGGCCACCCACACGTTGTATATTCAGAGAGAGAGA
GGGAGTCAAGGTGTGACCGTCGACCACAGCCAGTGTGAGGCCTCTGCCTCTGGGCCTTTGCTTTGTGGCCTCACT
GCAACACAAAGCTCCACCAGGAGGCTGGTTACGTCCCCTACCACGGAAGCGAGGTCCAGAAGGCCAGCGGTGG
TTCCAGGAGCAACAGCTCCCAAACCTGAGCAAGGCAACCGATCGCCAGGACCAGGAAGCATCACCCAGGAGATT
TGGCGCCCACTTCCACCTCTTCTCTCAGTTTTGGACAAGTGACAAACCATTTTGCCCCCTCACTCTTCTTTTTTA
ACTGTTAAACCAAAGGAAAGCACAAATGAAGGAAATCCTGTGTAAAGCATTGAGAAGGAAAGAAGCCTGGAGCAG
CCTCTCCTGTCCACAGCCAGGGGTTAGGTCTGCAGGCCCGTCTGCGGTCCCCATCGAGCATCAAGGGGACGCTGT
GTGTGCTGCAAGTGACCCCGAAAACAACCACAGCCGTCACATGGTCCTCCTGAAGTTGGGGGCACCCTCCTCTCAG
CACCAAAATGGCCCCCACTCCTTCGTGTCTCCCGCTATCTCCAAATCGGACGTTCTTTCTAGCTGAGATTTTTTA
TTTTTCCACATCTGTAGTGCCATGAAGCGATTCTGTCTTTGACTTCCAATGGCAAACCTGGGTGATCGGGAACAA
GCACGTTGTACCCCTGGCTGGACATGGCCAAGACACAAGGCATTCCACGGCGGCAAGCTGACCGCACAGCAGTCT
GGCTTGATTTTCAGCCGTCATCATTGGGTTCTGTTTTGACAGCTCTGCTGTCCCATAGGGACTGCGACTGGGACC
AGGTCAACCACGCCAGGGGGGTGTACCAGCCTTTTCTTTTTTTCTTTCTTTTTTTTTTTTCTCTCTTAAGCTG
CTGTCAATCCAAACCATTGGCATCATCGTTTCTTTTCAATTAAAAACCAACATATCAGCAATAGTCTGCTCTCCCC
GGGAATCTCTAACATGCTCTGTTTACATCGATAAATGCACTTAAGGAAAACAAACAAATTAAAGCTCATCTTAA
GTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5315

MAKTYDYLFKLLLLIGDSGVGKTCVLFREFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERFRTITT
AAYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLALDYGIKFMET
SAKANINVENAFFTLARDIKAKMDKKLEGNSPQGSNQGVKITPDQQRSSFFRCVLL

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FIGURE 5316

GGTGAGCTGTGCGGGGCGGCGCCCGGCCTTGCTCAACGCCCAGCAGTCCCCACCGTCGCTGCCGCCGCCACCGCC
CTCGGCCGCTGCCGAGGCCTCCTGCAGCCATCATGTCCGCCAGCGCCGTCTACGTGCTGGACCTGAAGGGCAAGG
TGCTCATCTGCCGGAACCTACCGTGGCGACGTGGACATGTGAGAGGTGGAGCACTTCATGCCCATCCTGATGGAGA
AGGAGGAGGAGGGGATGCTGTGCCCCATCCTGGCCACGGGGGGGTCCGTTTCATGTGGATCAAACACAACAACC
TGTATCTGGTTGCCACATCCAAGAAGAACGCGTGCGTGTGCTGGTCTTTTCTTTCTCTATAAGGTGGTGCAGG
TGTTTTCCGAGTACTTCAAGGAGCTGGAGGAGGAGAGCATCCGGGACAACCTTTGTTATCATCTACGAGCTGCTGG
ACGAGCTCATGGACTTCGGCTACCCCCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGGAAGGCC
ACAAGCTGGAACAGGGGCCCCGCGGCCACCAGCCACCGTCACCAACGCGGTGTCCTGGCGGTCCGAAGGCATCA
AGTATCGGAAGAATGAGGTGTTCTTGACGTCATCGAGTCTGTCAACCTCTTGGTGAGCGCCAACGGCAATGTCC
TGCGCAGCGAGATCGTGGGCTCCATCAAGATGCGAGTCTTCCTCTCGGGCATGCCCGAGCTGCGCCTGGGCTCA
ACGACAAGGTCTCTTTGACAACACGGGCCGCGGCAAAAGCAAATCCGTGGAGCTGGAGGATGTGAAGTTCCACC
AGTGTGTGCGGCTATCAGCTTCGAGAATGACCGCACCATCTCCTTCATCCCACCCGACGGCGAGTTCGAGCTCA
TGTCTACCGTCTCAACACCCACGTCAAGCCTTTGATATGGATCGAGTCGGTGATCGAGAAGCACTCCACAGCC
GCATCGAGTACATGATCAAGGCCAAAAGCCAGTTCAAGCGGCGGTCAACAGCCAACAACGTGGAGATCCACATTC
CCGTGCCAATGATGCCGACTCACCCAAGTTCAAGACGACGGTGGGGAGCGTTAAGTGGGTCCCCGAGAACAGCG
AGATCGTGTGGTCCATCAAGTCCTTCCCGGGCGGCAAGGAGTACCTGATGCGGGCCCACTTCGGCCTGCCTAGTG
TGGAGGCCGAAGACAAGGAGGGCAAGCCCCCGATCAGTGTCAAGTTCGAGATCCCTTACTTCACTACCTCCGGCA
TCCAGGTGCGCTACCTGAAGATCATTGAGAAGAGTGGGTACCAGGCCCTGCCCTGGGTGCGTTATATCACGCAGA
ATGGAGATTACCAGCTCCGGACCCAGTGAGGGGCTGTGCGAGCCAACACCCCGGCCCTCGGGCTCCTGGTGGCAGC
ACCAGGGACACACCTGCCAAACCCACCAGATGGAGGGGCCCTCCTGGTCTCTGGCCACCCTTCCAGCCTCTGCCC
AGGGACTCCTGCCTTACCAGGGCATCTGCTCTGCCGTGACACTCGTCTCAGAAGCCCCCTTCCAGAAAGAGGC
TGGTCTTCAAGAAGTCTCGTTTCTTTGCCCTGAAGTCAGTTTCAGGGGAAGGATGTGAAATTTTCCGTGTAGA
GGTTACAGCCTTTTATGCTGTTGAGCTCCCAGGTACCAAAAAGCTTGGCCAACGCTTGCCAGCCAGCCAGCTGCA
GGTGGCATCTGCCACGAAGGAAGCGCCACGCTCGCCAGGCCAGCAGGGGCGTCGTTTTGTTGCCATTTTGTGAA
CGTTATGGGTTTATGGGTGTTCTTGGAACCTTGTCTTTGTGCATTCTGTTGCTGTTTGTGTTACCTCACTGTCCCC
ATGTCCCACCCACGTCTACGGCACTCAGGAAGCACTTGGTGAGGACGAGCCCTCACCTTCTTGTCTTCCTTCC
CGGCAGCGCCGACGCGGGCCATTTACACGTGAGGCTGGCACCTGGCGCGCTCGGGGGCCACTGTAGCGTCTGCC
TGCTCCCTGGACTCGCAGGCCTCGCCTGTGGCGCCTTCCAGGGCCAGCCTGGGTACGAGATGCTGTCACTCAG
CCAGATCAGTATTGACCCACCAGGGGAGGTGGGGTTTGGTGAGAGACGCCAGCCTCAGACTTTTTCCCACTGAGG
GTCCAGAGAGCGGGGCCACGTGTCACCCACGTCTGCGCTTGGTCACCGTCCTCCCCACCCTGTGTGTGTTTATG
TCATAGTTACATTAAATTCCATTCATTG

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FIGURE 5317

CCTTCAGGCCTGAATGTGGCGGCTGCCTCTGCGAATGGACGGCGTGGGAAGAGAATGGCCTTCTGCAAGGAAAGCC
AGCCGTCCCATGCGTGATGTTTTTGGTGACTTCAGTGATGTTTCCTTGGAAGATTCAACAATGGAAGAAATCAGA
AACTTCCAGATCAGTAGAAATCTTACCAAAATAGCACCTGGTCATAGCAGATTTCTAAAAAGAAACCAAACCTCTA
GATGAGAAACACTTACTCCTGAAAGAGAACCCTGTGCTCGGGAGTGGACCCAGGCTTGCCTCATGTAGACCGCCC
ACCACTGCCTCCAGGATCCGAGCCAATGCCGCACTCATGAAGCTGGCCCAGCTGGAAACCCGGATCATGAATCGG
AAGCTGCAGAGGAATTTGTCTGACACGGAATCTGACTCAATGACCGCCGATGCTGGTCTTCCAAAGAGAGCTGAC
AGAATCCTCTCTGGGGGTGCACTCGAACTCGCGTCCAGAACACAGACAAAACCTTCCCAGAATCAAGCCCGTGAA
CTTCCTGTCAACGAAAATAATGCACAGAACGCGAAGGTCAGTAGGTTTCTAAAGAAGAAACAAGCACCTGTTGAA
AACATATCCCCTGAAGCACCTGCTGGGAAAGAGAGGACTTTGCAAACCCCCAAACAGAAAGAACCTGCTAGAACA
TTTGATTCTCCAGACAGTGACGAAGAAGAAATGAAAGTATTGCTAGGAAGCTTGATGGACTCTTCTAGAGAAAAA
AACACGAATCAAGGCTTCAGCAGCGCTAACGTCAGCGAGGAAGAAGAAAGAAAACCTATTTTCGGTCCCATCTCAA
CTGAGAGCATTTACTGTACCCAGCGTGGAACCTCTCCAGCGCAAAGCCTTCTCAGACATCACACCTGCCAACCTCC
CTGGCAGCAGACAGAACCCTTCACAGCACTCGCTCAAGAGCAGACTACCCACAGAGTCACGTTTCCAGTGACACC
GCCTCCCACACGCCGTCAGTTTCCATCACAGGCGCCTTTTCAAACCTCAGTGTCTTTAAAGATGGGGCATGTCAAG
CTTGTTCTCTCCCCGGGAAGGAGTGAGGCTGAGACTGTGGACGAGCCAGTCTCAGAAGGTGCTGATGACAGCCTC
GACGAGTTTAGAATAAATATTTTATCGCTTGACGGTCTGGCTCCAGCTGTCAGTGAGAATCCGATTTGGAACAG
GAAGAGGAAAGTGCTCAGAGACAAAAAACAGCTGGCAAAATCTTCAGAGCCGAGGCGTCCACTGGGCAGGATGCC
CCGAGGCAGGCCAGGCGAGGAGCTGGGCATCACAGGGAAGGCCGCTCTGCAGAGGGGGATGAGAGCGAGGTC
TCGGAGCATCTCAGTGCCAGCTCGGCTTCTGCCATCCAGCAGGACAGCACTTCCAGCATGCAGCCACCATCTGAA
GCCCCATGGTGAACACAGTCAGCTCAGCTTATTTCGAGGATTTTGAAAACCTCTCCAAGTCTGACAGCATCTGAG
CCAACCGCCATTCCAAGGAGTCTCTTGACAGAACACTGGACGCTTTGTCTGAATCCTCTTCAAGTGTGAAGACA
GACCTTCCACAAACAGCCGAGTCTAGGAAAAAGTCGGGCAGGCACGTGACAAGAGTGCTTGTGAAGGACACAGCT
GTGCAGACGCCAGATCCTGCCTTCACCTACGAGTGGACCAAGGTGGCCAGCATGGCAGCCATGGGGCCTGCCCTG
GGAGGCGCCTACGTGGACCCGACACCCATCGCCAATCATGTTATCAGTGCAGATGCAATAGAAGCCCTGACCGCT
TACAGCCCGGCCGTGCTGGCACTCCATGATGTGCTGAAGCAGCAGCTGAGCCTGACGCAGCAGTTTATCCAGGCC
AGCCGGCACCTGCACGCCTCCCTCCTGCGCTCCCTGGACGCGGACTCCTTCCACTACCACACCCTGGAGGAAGCC
AAAGAGTACATTAGGTGCCACAGACCTGCCCCACTGACCATGGAGGATGCCCTGGAGGAGGTGAACAAGGAGCTG
TGAGCGCCAGCAGGTGGAGCTTGACGTGACGTCTTAACAAAAGCAAAGCACCGCAGCTTCCCAGAGTTACCAGCG
CAGCACTTAAGACAGGATCTTACGGCGGGGTGGGGCTCCTGGACCGTGACCGCGTCGTCTTCTGGGGAGTACG
ACTTGGACCGGGACCGCGACTGGGACCGGGAGCGGCTTCTGGAGGAGCGGACCTGCTCCGACTTCTGCAGGGAA
GGGTGCCCCAAGGTCAGCAGCAGCCAGGCGTCTGGGGAGGCCACAGGAAGGGGCCTCAGGCACTGCCCTGAGGC
AGCCTCTGCCTACCTAGATCTGGAGCGGGAGTAGGAACGGGAGCAGGAGCGCGACCTTGACCTTGAGTACGAGCC
TGAAGACTTGGAGGATCTTGAGTTGGAGCGGGAGGAAGAACGCCCTCGACTCTTGATCTGCTCCGAGACCTCGA
GGGTCCGCTGTGGGGAGAGGCCTGATGATCAGGTGCCCCAGTGGATGGGCTGCACCCAGCCCACCCTGGCCCTCA
GGTTCCTAGACCACCCAGATGCAGGGGCTCTGGCTGTGGATGTGGCGCCATAGCCACAGCAACGGTACCAAGTT
CCTAAATAGTGTGGCCGAGCCTGCTGCTGTGTGAATTCAGGCCTTGTGGAAAACACCGCCCCATAGGCACAGGCT
GTGTGAGGGTGGACGTGATGAGTGTATCTGGGGTCTGCTCCCACCCATCACAAGCTGTGGACCTTGCCCCCGG
CCACTGCAGACATCTGCGCTTTTACCTGTTCTTCTCTCTGGCCTTTCTCCGCCGGGCCCCGATTTTGTCTCG
GAAGAACTCATAGAGGCCGTTCTGCTCCAGCCTTCACTGTAAGACACGGCATTCCGTGTGTGACCACGTGACAC
CCACCCACAAGGAAGTCGTGAAAAAGTCATCAGGAGTTAATCCACAGAACCTTGGAGAGTACATGGCCCTGTGGC
TGTGGGCTCCGAGCATGGGCGCAGTAGAGCTTGGTTCAAGTGTTCACAGGGCTGTCTCTCTGCAGCCAGTGGC
TCCTCTGGTGCCACGCCCTTGCCACCCTGCTGTTCCGCTGAGGTGGTGGGGACCCATGGTCTGTGGAACCTGGGA
AACAGGAACACTGACTCATGGGTGGACAGGCCTGCAGCCCAGCACAGGAAGGAGGGGTGACCACTGGGAAGGGTG
GGCTGAGGGCCCTGTGGCAGCCGGCTGCTTGAGACGTGCCGCCGTGCCACACCTTCCCTAACTTCTTCTGATGTG
TCTCCATTAAACGCCCTTCATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5318

MASARKASRPMRDVFGDFS DVSLDSTME EIRNFQISRNLTKIAPGHSRFLKRNQTLDEKHL LKENPVLGSGPR
LASCRPPTTASRIRANAALMKLAQLETRIMNRKLQRNLSDTESDSMTADAGLPKRADRI LSGGALELASQNTDKT
SQNQARELPVTENNAQNAKVSRFLKKKQAPVENISPEAPAGKERTLQTPKQKEPARTFDSPDSDEEEMKVLLGSL
MDSSREKNTNQGFSSANVSEEEERKLFSVPSQLRAFTVPSVELSSAKPSQTSHLPTSLAADRTLHSTRSRADYPQ
SHVSSDTASHTPSVSITGAFSNSVSLKMGHV KLVSSPGRSEAETVDEPVSEGADDSLDEF RINILSLDGLAPAVS
ENSDLEQEEESAQRQKTAGKIFRAEASTGQDAPRQAQARSWASQGKAASAEGDESEVSEHLSASSASAIQQDSTS
SMQPPSEAPMVNTVSSAYSEDFENSPSLTASEPTAHSKESLDRTLDALSESSSVKTDLPQTAE SRKKSGRHVTR
VLVKDTAVQTPDPAFTYEWTKVASMAAMGPALGGAYVDPTPIANHVISADAIEALTAYSPAVLALHDVLKQQLSL
TQQFIQASRHLHASLLRSLDADSFHYHTLEE AKEYIRCHRPAPLTMEDALEEVNKE L

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FIGURE 5319A

GGCACGAGGGCAGACGGCGCTGGTGGTTCGATCGTGTGGCGCCGGAGGACGTTCCCCGCGGCCGGAGCCATGGAGA
TGCCGCTGCCCCCGATGACCAGGAGCTTCGAAATGTCATCGACAAGCTCGCCAGTTCGTGGCTCGCAATGGGC
CCGAGTTTGAGAAGATGACTATGGAGAAGCAGAAGGACAACCCCAAATTCGTTCCTTTTCGGAGGCGAATTCT
ACAGTTACTACAAGTGCAAGCTGGCGCTGGAGCAGCAGCAGCTCATCTGCAAGCAGCAGACCCCGAGCTGGAGC
CAGCCGCCACCATGCCACCCCTGCCACAGCCCCGCTGGCCCCGCGCGCCCATCCCGCCGGCCAGGGCGCGC
CATCCATGGACGAGCTCATCCAGCAGAGCCAGTGGAACTCCAGCAGCAGGAGCAGCACTTGCTGGCGCTCAGAC
AGGAGCAAGTGACAGCGCCGTGGCCACGCGGTGGAGCAGCAGATGCAGAAGCTTCTGGAGGAGACCCAGCTAG
ACATGAACGAGTTTGACAACCTCCTGCAGCCCATCATCGACACGTGCACCAAGGACGCCATCTCGGCCGGGAAGA
ACTGGATGTTTCAGCAATGCCAAGTCCCCGCGCACTGTGAGCTGATGGCCGGCCACCTCCGGAACCGCATCACGG
CTGATGGGGCACACTTCGAGCTGCGGCTGCACCTCATCTACCTGATCAATGACGTGCTGCACCACTGCCAGCGCA
AGCAGGCCCGGGAGCTGCTGGCCGCCCTGCAGAAAGTTCGTGGTGGCCATCTACTGCACCAGCTTCTTGCCGTGG
AGGAAGACAAGCAGCAGAAGATCGCCCCGCTCCTGCAGCTCTGGGAGAAAAACGGCTACTTCGATGACTCCATCA
TTCAGCAGCTACAGAGCCCAGCCCTGGGGCTTGGTTCAGTACCAGGCCACCTCATCAACGAGTACTCCTCAGTGG
TCCAGCCGGTGCAGCTGGCCTTCCAGCAGCAGATCCAGACCCTCAAGACGCAGCAGCAGAGGAGTTTGTACCCAGCC
TGGCCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCTCCAGATGCCGCAGATGGAGGCTGAAGTCAAGG
CCACGCCTCCACCGCCTGCTCCACCCCCGGCCCCAGCACCTGCCCTGCCATCCCGCCACCACCCAGCCTGATG
ACAGCAAGCCTCCCATCCAGATGCCTGGCTCTTCAGAGTACGAAGCTCCAGGAGGGGTCCAGGATCCTGCAGCTG
CCGGCCCCCGGGGCCCCGGGCCACACGACCAGATCCACCAAACAAGCCCCCTTGGTTTGACCAGCCTCACCCCG
TGGCTCCTTGGGGCCAGCAGCAGCCGCCAGAGCAGCCACCTACCCGCACCACCAGGGCGGGCCACCCCACTGCC
CCCCCTGGAACAACAGCCATGAGGGCATGTGGGGCAGCAGCGCGGTGACCCCGGCTGGAACGGCCAGCGCGACG
CGCCCTGGAACAACAGCCCGACGCGCCTGGAACAGCCAGTTCGAGGGCCCCCTGGAACAGCCAGCAGCAGCAGC
CGCCCTGGGGCGGGGGCCAGCGCGAGCCACCTTCCGCATGCAGCGGCCCCACACTTCGGGGGGCCCTTCCCGC
CCCACAGCAGCACCCGCGAGTTCAACCAGCCTCCGCACCCCCACAATTCAACCGCTTCCCGCCCCGCTTCATGC
AGGACGACTTCCCGCCACGGCACCCCTTCGAGCGGCGCCCTATCCCCACCGCTTCGACTACCCCAAGGGGACT
TCCCTGCCGAAATGGGGCCCCCTCACCAACCCCTGGCCACCGCATGCCTCATCCTGGCATCAACGAGCACCCGC
CTTGGGCTGGACCCAGCACCCCTGACTTCGGCCCTCCCCCATGGCTTCAACGGGCAGCCCCACACATGCGGC
GACAGGGCCCCGCCACATCAACCAGATGACCCAGCCTGGTCCCCAATGTGCCCTACTTCGATCTCCCTGCTG
GGCTGATGGCCCCCTCGTGAAGCTGGAAGATCACGAGTACAAGCCTTTGGACCCTAAAGACATCCGCCTCCAC
CCCCATGCCGCCCAGCGAGAGGCTGCTGGCTGCAGTGGAGGCCCTTCTACAGCCCCCGTCCACGACAGGCCCA
GGAACAGTGAAGGCTGGGAGCAGAACGGCCTCTATGAGTTCTTCCGAGCAAAAATGCGGGCCCGGCGGAGGAAAG
GCCAGGAGAAGAGGAACAGCGGACCCTCGAGGTCTCGGAGCAGATCCAAGAGTCGAGGGCGTTTCTTCTCCCGCT
CCAACCTCAAGATCCTCCAAGTCTTCAGGCTCGTACTCAAGGTCAAGGTGCGCTCCTGCTCCCGTTCTACTCCC
GCTCCAGATCTAGAAGTCGGAGCAGGTGCGCTCCTCCAGAAGCCGCTCCCGGTCCAGTCGCGGTCCCGGTCCA
AGTCGTACTCCCCAGGAAGAAGACGCGGTACCGTCCAGGAGCCCCACCCCGCCTTCTCTGCTGGTCTGGGTT
CTAATTGGCGCCTCCCATTCCTGACTCAAGGCTCGGAGAAGAGAACAAGGCCATCAGATGCTGGTGAAGATGG
GCTGGAGCGGCTCAGGCGGCCTCGGTGCGAAGGAGCAAGGGATCCAGGACCCCATCAAGGGCGGGGACGTCCGGG
ATAAGTGGGACCAGTATAAAGGCGTGGGCGTGGCTCTGGATGACCCCTATGAGAACTACCGCAGGAACAAGAGCT
ACTCCTTCATCGCCCGCATGAAGGCCAGGGACGAGTGTAAGTAGGCGCCCATGCCGGGAGCCGCGCCGGTGGCCA
GCGGTGCCGGCTGTGGGACCTTCTGGCTGACTGGCAGAGGAAGATTGCAGTGACAGCTCAGTTCTTACACCGTC
TCCACTTGTGGAGAGCCACAGGAAGAGAAGGAAGACCAGCGCATGCCAGTGGGAACGCCGTGCTCCATGGCGTG
GAGGGCACGGGTGCCACCCACAAACCACACCAGGAGGCGCTGCAGCCACCAGGGCCCCAGGCTCGTTTTCTTTA
TAGCGAAGCAAAAAACACAAGACCTCCGCCCCGAGTAAATTCTTCAGCCACGAAGGGATGGATGTGCATCTGCC
TAAGTCAGATTGAAGCCTCCTCCTAGGCTCCAGGAGGAGCATGTGCAGGAAGGGTTGGCCTGAGCCAGAGCCGGC
ACCCAGCTCCTTCTCCAGCTCCCCGACCCACCGGCCCTGACCTGGCTTCCCCTCGGCTGTGTAGGGACAAAG
CCGAAGCCAGTGCCATGACTGCCCGCGGATTGAAAAACAGAAACACAAAACCTTTGACTTGACTTGCGAAGTGAA
GCAGGGTTTTTCATTTTTACTCTCCTTGGTTTAGGTCTAGAAAGAAGAATACTGACCTGAGAGGAGGCCAGTGAG
ATTCTGAAACCTAATTCTTCGAAGGCGTACTGGCCCTTAGTTTCAGTTATTTTAGTTGTATAAGTTGATATTTTTT
TTCTGGAATGTAGCCATTTGCTGTTATCTGGGAAACAAGATTCTAACAGGAACCAGCCTAAGACACTTCAGGTT

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FIGURE 5319B

GAGCGCTGCCTCGGAGTCTGTGCCCGTCGCGTCCCCTGCTTGAGTTTTGCACTTGGAAGAACCCTGCACCGGCTG
GCGTGTGCGACGGCCCCAGTCCCATCCAGAGCATGGAGCCCGACCCAGCCAGCGCCTTCCACTCCATCATTTCAT
TTCACACCCCCGAAGGGAGGGGAGGCCAGGAGGGGAGCTGCTCCTGCCAGAAGCTGGTGGGTGACCGTTGGGAAT
CGGCCACACCTGGTGTCCATGGGCAGCCTGGTGCAATTCCATTCAATTTGTACAGAAACATTTTTGAAAAATTCTT
TTCAATAAGATGCAAAATCTTCCAACTTTTCAACCCAACGTGATGAATATTTGATTTTGTCTAGATTCCTGTA
GCTGTGAATTGTTAAAAATGIATGATTCAGGATAAAACGTAAACACGTGCTGTTAGTAATTTCTTGTGGATTTTCAT
TGTTTTGCCTTCAAATAAAGCCTTTTTTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5320

MTMEKQKDNPKFSFLFGGEFYSYKCKLALQQLICKQQTPELEPAATMPPLPQPPLAPAAPIPPAQGAPSMDE
LIQQSQWNLQQQEQHLLALRQEQVTA AVAHAVEQQMQKLEETQLDMNEFDNLLQPIIDTCTKDAISAGKNWMFS
NAKSPPHCELMAGHLRNIRITADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKVVPYICTSFLAVEEDKQ
QKIARLLQLWEKNGYFDDSIQQQLQSPALGLGQYQATLINEYSSVVQPVQLAFQQQIQTLKTQHEEFVTSLAQQQ
QQQQQQQQQLQMPQMEA EVKATPPPPAPPPAPAPAPAIPPTTQPDDSKPPIQMPGSSEYEAPGGVQDPAAAGPRG
PGPHDQIPPKNKPPWFDQPHPVAPWGQQQPPEQPPYPHHQGGPPHCPPWNNSHHEGMWGEQRGDPGWNGQRDAPWNN
QPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRPFFRGFPFPHQHPQFNQPPHPHNFNRFPPFRMQDDFP
PRHPFERPPYPHREFDYPQGDFPAEMGPPHHHPGHRMPHPGINEHPPWAGPQHPDFGPPPHGFNGQPPHMRRQGPP
HINHDDPSLVPNVPYFDLPAGLMAFLVKLEDHEYKPLDPKDIRLPPPMPPSERLLAAVEAFYSPPSHDRPRNSEG
WEQNGLYEFFRAKMRARRRKQGEKRNSGPPSRSRSRSKSRGRSSSRSNSRSSKSSGSYSRSRSRSCSRYSRSRSR
SRSRSRSSRSRSRSQSRSRSKSYSPGRRRRSRSRSTPPSSAGLGSNSAPPIDPSRLGEENKQHMLVKMGWSGS
GGLGAKEQGIQDPFKGGDVRDKWDQYKGVGVALDDPYENYRRNKSYSFIARMKARDECK

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FIGURE 5321

GTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCCGCCGCTGCTGCGCGCCTGGCGCGTGCCCCCGCGCCGCCCCGT
CTCGGGCCCCGGACCCAGTCCGCATCCGTCGTCGCGCCCCGCTGCTGCCGCCGCGCTTCTACCCGCGCTACGTGCT
ACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTGTGTCAGCGCACGTGAGCATCTGGAAGGTGCCCGTGTCTCTATGC
ACACACCGTCAAGGCCACCATGCCCATCTGGGTGGTCCTCTCTGTCGCCGATCATTATGAAGGAGAAGCAGAGCAC
CAAGGTATACCTGTCACTCATCCCCATCATCAGCGGTGTCTGCTGGCCACCGTCACCGAGTTGTCTTTTGACAT
GTGGGGACTCGTCAGCGCCCTCGCCGCCACGCTGTGCTTCTCGCTTCAGAACATTTTCTCCAAAAGGTCTTGCG
AGATTCACGGATCCACCATCTCCGGCTGCTCAACATCCTGGGTGCCACGCCGTCTTCTTTATGATCCCCACCTG
GGTCTGGTGGACCTCTCGGCTTTCTGGTCAGCAGCGACTTGACCTACGTCTACCAGTGGCCCTGGACGCTCCT
GCTCCTGGCTGTGAGCGCTTCTGTAACTTTGCCCAGAATGTTATCGCCTTCAGCATCCTCAACCTCGTTAGCCC
CCTGAGCTACTCGGTCGCCAATGCCACCAAAAGAATCATGGTCATCAGGTGTCCCTGATCATGCTGCGCAACCC
AGTCACCAGCACCAACGTCTTGGGCATGATGACCGCCATCCTGGGGGTCTTCTCTATAACAAGACCAAGTACGA
TGCAAACCAGCAAGCCAGGAAGCACCTCCTCCCCGTGACCACAGCAGACCTGAGCAGCAAGGAGCGTCACCGGAG
CCCCTGGAGAAGCCCCACAACGGCCTCCTCTTCCCCCAGCACGGGGACTATCAGTACGGCCGCAACAACATCTT
AACAGACCACTTCCAATACAGCCGGCAGAGCTACCCAACTCGTACAGTTTGAACCGCTATGATGTGTAGAGTCC
AAAGGACAGGACCAGACTGTTGGTGACTCCTTCCCCGGCCCCACAGCAGTATCAGAACTTCTGACAATCAGTG
AATGTACAACCCAGCCGAGGGGACGGTGCATAACTCTCCATCAGAAGCCCTGGGGTTCTGGCCCCCGTGAGCC
GCAGGAGGATGCGTTGCCTGCAGTGCAGACGGCCGTGAGCTCTGGGCAAACCTAAACAGAGACCAGTGTCTCATG
CTCTTTCTTCTGGAGTCTGTCTATCTGAGGGCCGTGTCCCTGCGGAGATCTTGGCCACGTTGTACCTTTCCATGT
GGAATTATCCCCAAGCAGTGTAGCTCAGAGCACTTGTGTCTGCATTCCAGATAACATTACAGGACCTGTGTGAAA
AGCTGGGGTCACTGTGGCTGTAGACCATGAACTGGCAGTGGGGGTGTCCAGGGCGGTGCTTGAGAACGTCAGACT
GGCTAGTTTAAATTCCCTGGCGCAGATACGCATAGGACCAACAGGGTCACCAAGCAGACAGGGAGCCCCGCGAGAAT
CATTCAAAACATCCCCAGCCACAGAGATGGATCCAGTTTCTTGGTCATCCCCCTTAGCAGTTTACAAGTTCTTGGC
AAATGTTCCAAAGCAAAAAGCGATTGCAATTAGCATCCAGTTCTGCGAGCCTGGTGCTCTGCCCTGCACGTCAGG
GTTGGCATCCACCCAGATCCAGATGGAAGGGAACTTCTCTCTTCTCCTTTGCCTCCTCTTCCCTCACCAGAGCA
GGGCGCTTCTCTTGGGGTGGTGAGAAGGATCTTCGAGAAATCGTGTTTCAAGTCTATTTCTGTGGCA
CATGTCTTTTGGAGGCATCTTCACCTCTTCTGTGATGACTTGGTATGTTGTTTGGTAGAGAGATCTTGATTTTC
GGAGGATCTTGCATTTTTCTAGGGAATATTTTGTAGTTGTGTGTGTGTGTTTTTGCCTTGGTCCCCATTATGGGA
TGCAATTAGGACTGGCCTATGCATCGAAAATCTTTTTGTTTGTAAACGTTTAAAAACAAAGTTCCCCGGCCAGGCA
CAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGATGGGCGGATCACGAGGTCAGGAGTTCGAGACC
AGCCTGGCCAACATAGTGAAACCCCATCTCTACTAAAAATACAGAAATTAGCCGGGCATGGTGTGCGGTGCCTGT
AGTCCCAGCTCCTCAGGCTGCTGAGGCAGGCGAATTGCTTGAACCTGGGAGGCAGAAGTTGTGGTGAGCCGAGAT
TGTGCACTCCAGCCTGGGTAACAGAGCGAGACTCCATCTCAAAAAAACAACAAACAAAGTTCCCACTGGT
GATGCCTGTCTGACACGTTTTTGGTATTTAGTAGGAAATGAAGTGTTCGAAGCTTCGAGAGAAGCTTCAAAATTG
TCACAATTGCTGAAAACAGAATGAATCGTGAACATTATCTCAATATTTTGTATAATAGACAAGACCACAGTGTTC
TGGTTCCTGACCTGTTTTTGTGTTTATGTTAGGATCTGAATCATGTTCTGGGTAAGGGGACGAGGAGCGAACAC
TGCACTAAGATTTGGTTTGCCAAATCAGATTCTTTGGTCAAGAGTCAGTTTGGGGCCAGGCGTGGTGGCTCATGC
CTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTGGAGTTTGAGACCACCCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAACAAAATTAGCCAGGCATGGTGGCACCTGCCTGTAATCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATCACTTGAGCCCAGGAGGTGGAGGTTTACGCGAGCTGAGATCACACCACTGCACTCCAGCCTT
GGTGACAGAGTGAGACTCTGTCTC

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FIGURE 5322

MPIWVLLSRIIMKEKQSTKVYLSLIPIIISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFSKKVLRDSRIHH
LRLNLILGCHAVFFMIPTWVLVDLSAFLVSSDLTYVYQWPWTLLLLAVSGFCNFAQNVIAFSILNLVSPLSYSVA
NATKRIMVITVSLIMLRNPVTSTNVLGMMTAILGVFLYNKTKYDANQQARKHLLPVTADLSSKERHRSPLEKPH
NGLLEFPQHGDYQYGRNNILTDHFQYSRQSYPNSSYSLNRYDV

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FIGURE 5323

GGCACGAGGGGAACATCTTCATGATGTTCTGCATGATTGTGCTGTTCTGGCTCTTGAATCCCAGCGATGAAACCAG
GAACTCACTTTCCCGGGATGCCGAGTCTCCATTCCCTCCATTCTGATGACTTCAAGAATGTTTTGACCAGAAAA
CCGACAACCTTCCCAGAAAGTCCAAGCTCGTGGTGGGTGGAAAAGTGTTGCGCGAGGTGTGCATGGTTTCCCAGC
CACGTCCCTGTTTTCAAAGATAGTTTCACTTTGGTCTCTGAATTGAAATGCTGTCTACTGAAAGGGTTTCAGGAG
CGTTTATGTAAGGGGCTGTGATGAAATTGCATTCCCCATAGATAAAAGAAAAATCATTCTATCCAGAGATCTGA
GCAGAAGGATTGGCTTGTTAGTTTAAACACAGCCGTATTTTTGGACATTCACTGTTACTTGCTGAGTCTGACAGCC
TCTGGGCCCCGGCCAGGGGCCCTGTAAACAACTGCTTTCACATCCCAACAGGGTCTGCTTGGCCACTCAGTGCAG
CTGCGATTAAACCCTAAAGGCTTTAAGGAACGGGCCACCTGTAACAGAGACACCAGCCTTCCTGTATAGACACTAA
ATTGTTAGCAAGAGTGTTGAGCTAGTTCCTGGTGAAGTGTTTCCACAGAAGACATGTGGAGCAGTTGTGGGGATA
TTAAGGGAACTTTCCCTCTGCCTTGACCCCTTTGTAAATAAAATGACTTTGGGAGCCATTCATTGTACAGTTGC
AGGAATGAGAGTGATTTTATGATGTGGTACATTGGGACCATGTTCTAAACCTTGGGTTTCTGAGTCTGCTTTTT
GAGTAGGTGATTTTGAGGTTGAAAAACCAGGGGCCTTCATCTAGGAAATACAGCATTTTCCAGAAGCTTCTTTGA
AAGGAATCCTGGTTTTGTGCCAAAATGAAACGCCCGGGTTGGCGCTGAATCCCACAACCTGTGTGATTTGCTT
GTTGAGTTTTTTGTTGTCTGGTTTTTTTTGTTTTGTTTATACCAATAAGAATGAGCCTGAATGTTGGTGGTTT
TTGAAATCCTGACTTGAGGTAAACCTGGAGGAAGGAAAAAAGTAAATATGCAGGCTTTTAGGACTGAGTAGCC
TTGAAAATAAACCTCATTTCTAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5324

MPSLHSSIPDDFKNVFDQKTDNLPRKSKLVVGGKVFAEVCMSQPRPCFQR

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FIGURE 5325A

ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGGCCCTACCACCTGCACATCTACCCCCAGCTG
TCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCACCACCTCGGACGTCAATCAAGGAC
GCCATTGCCAGCCTGCGGCTGGACGGCACCAAATGTTATGTGCTGGTGGAGGTCAAAGAGTCGGGAGGCGAGGAA
TGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGCTATGGCCCCGGCGGGCACAGGACGAGCACCCT
CAGGAGGATGGCTACTACTTCCCTGCTGCAGGAGCGCAACGCAGATGGAACCATCAAGTACGTGCATATGCAGCTG
GTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGGCCTCCTGCCACGGCAGCAGGCGGACTTTGATGAC
CTGTGTAACTCCCCGAGCTAACCAGGGCAACCTCCTGAAGAACCTCAAGCACCGCTTCCCTGCAACAAAAGATC
TACACGTACGCGGGGAGCATCCTGGTGGCCATCAACCCCTTTAAGTTCTGCCCATCTACAACCCCAAGTACGTG
AAGATGTATGAGAACCAGCAGCTGGGCAAGCTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCTACTACACC
ATGCTCAGGAAGCGCGTGAACCAAGTGCATCGTGATCTCGGGTGAGAGCGGCTCCGGCAAGACCCAGAGCACCAC
TTCTCATCCACTGCCTCACCGCCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCCTGGGTGCT
GGCCCTGTGCTGGAGGCTTTTGAAATGCCAAGACAGCCACAACAACACTCCAGCCGGTTTGGGAAATTCATC
CAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTGCTGAGAAATATCTGCTTGAAAAGTCTCGCCTG
GTGTCTCAGGAGAAGGATGAGAGGAACTACCATGTGTTTTATTATTTGTTACTTGGGGTCAGCGAGGAAGAGCGC
CAAGAATTTAGCTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTTGAAGATTGAAGATGGGGAG
GACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCCCTCCCCGCCACCAAGAAGCAG
ATTTTTGCGCTCCTCTCGGCCATCCTGTACCTGGGCAACGTCACTTATAAGAAGAGAGCTACAGGCCGAGAGGAA
GGGTTGGAGGTGCGGCCACCCGAGGTGCTGGACACCCTGTGCGAGCTTCTGAAGGTGAAGCGAGAAATCTTGCTG
GAGGTTCTGACCAAAAGAAAACGGTGACCGTCAACGACAAGCTTATCCTTCCCTACAGCCTCAGCGAGGCCATC
ACTGCCCGGACTCCATGGCCAAGTCTCTGTACAGCGCCCTGTTGACTGGATTGTGCTGCGGATCAACCACGCA
CTCCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCTGTCCATTGGGGTCCCTGGACATCTTCGGGTTTGAA
GACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAG
CACATCTTCAAGCTGGAGCAGGAGGAATATCAGGGCGAGGGGATCAGTGGCACAACATCGGCTACACAGACAAT
GTCGGCTGCATCCATCTCATCAGCAAGAAACCCACGGGCCTCTTCTACCTGCTGGACGAGGAGAGCAACTTCCCC
CACGCCACGAGCCAGACCCTGCTGGCCAAGTTCAACAGCAACATGAGGACAATAAGTACTTCCCTGGGCACCCCG
GTCATGGAGCCAGCTTTCATCATCCAGCACTTCGCGAGGGAAGGTGAATATCAGATCAAGGACTTCCGGGAGAAG
AACATGGACTACATGCGGCCAGACATCGTGCCCTGCTGCGGGGAGTGACAGCTCCTACGTGCGGGAGCTCATC
GGCATGGACCCCGTGGCCGTGTTCCGCTGGGCCGTGCTCCGGGCTGCTATCCGGGCCATGGCAGTGCTTCGGGAG
GCCGGACGCTGCGGGCCGAGAGGGCCGAAAAGGCTGCAGGTATGAGCAGCCCTGGTGCCAAAGTCAACCAGAA
GAGCTGCCAAGAGGAGCCAGCACCCCTTCGGAAAACCTTTACCGCGATTTGCATAACCAAAATGATCAAGAGCATC
AAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTCCAGAAACCCCGCGCC
TTCATCCTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTCCAAAGAACCTACTGGACTCCAAGTCCCTGAAA
CTCATCATCAGCATGACTCTGCACGACCGCACCAAGTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCA
AGCATCAGCGCCAGTTCAGACATCCCTTAACAAGCTCTTGGAGGCACTGGGGAAGGCAGGACCCCTTCTTTATC
CGCTGCATCCGTTCATATGCTGAAAAGAAAGAGCTGTGCTTTGACGACGAGCTGGTCTGTCAGCAGCTGCGCTAC
ACCGGCATGCTGGAGACCGTGCGCATCCGGAGGTGAGGTACAGCGCCAAGTACACGTTCCAGGATTTACCCGAG
CAGTTCCAGGTGCTCCTGCCAAGGATGCCAGCCCTGCAGGGAGGTATCTCCACCCTCCTGGAGAAAATGAAG
ATAGACAAGAGGAACCTACCAGATCGGGAAGACCAAGGTCTTCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAG
ACGCTGCACCGGGAGGTGGTGCAGAAAATCCTGCTGCTGCAGAGCTGGTTCCGGATGGTGTGAGCGTCCGGCAC
TTCTGTCAGATGAAGCGGGCCGCGTCACCATCCAGGCCTGCTGGCGGTCTACCGGGTCCGGAGGGCGCTGGAG
AGGACGCAGGCTGCCGTGTACCTCCAGGCCTCATGGAGGGGCTACTGGCAGCGGAAGCTCTACCGGCACCCAGAAA
CAGAGCATCATCCGCTGCAGAGCCTGTGTGCGGGGCACCTGCAGCGCAAGAGCTTCAGCCAGATGATCTCGGAG
AAGCAGAAGGCAGAAGAGAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTGAGGAGGGCGGACAGGGT
CAGGCGGCTGGAGGGCAGCAGGTAGCTGAGCAGGGGCGGAGCCAGCGGAGGATGGCGGGCACCTGGCATCGGAG
CCTGAGGTGCAGCCAAGTGACAGGTCCCCCTAGAGCACTCCTCACCTGAGAAGGAGGCCCAAGCCAGAGAAG
ACTCTCCCAACCCAGAAAACCGTGGCGGCTGAAAGTCACGAGAAAGTCCCCAGCAGCCGGGAGAAGCGTGAGTCG
CGTCGGCAAAAGAGGGCTGGAGCACGTCAAGTTCCAGAACAACACATCCAGTCTGCAAGGAGGAGAGTGCCCTC
AGAGAACCTTCCAGAAGGGTCACCCAGGAGCAAGGGGTGAGTCTCCTGGAAGACAAAAGGAGAGCAGAGAAGAT

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FIGURE 5325B

GAAACCCTTCTAGTCGTAGAGACGGAGGCTGAGAACACATCTCAAAAGCAGCCCACAGAGCAACCCCAGGCCATG
GCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGACGCTGCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGG
CCGACCAGCCTGGCCCTGGACAGCAGGGTTCAGCCCACCGGCCCTGGCAGCGCCCCGAGACCCCGAGGACAAG
AGCAAACCATGTGGCAGCCCAAGGGTTCAGGAAAAGCCGACAGCCCCGAGGCTCCACGCAGATCCAGCGGTAC
CTGGACGCCGAGCGGCTGGCCAGCGCCGTGGAACCTGTGGCGGGGCAAGAAGCTGGTGGCCGCCAGCCCTAGT
GCCATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGGCCGCCCTCAGCCCCACAGAGGAG
AGGCGCACCTCCTTCTCCACGAGCGACGTCTCAAAGCTCCTCCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAA
ACCACGGACGGAGAGCGAAGTGCAGAAAAGCCAGCTGTCCAGAAGAAGAAGCCAGGCGACGCATCTCCTCCCA
GACGCAGGGCTGTCCCCGGGCTCTCAGGTCGACTCTAAATCCACGTTTAAAGAGGCTTTTTCTGCATAAAACCAAG
GATAAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGGGCACGTGGTGTGGAAGCCACC
ACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCACGCTGCAGGTGAGAAGCGCACCAAGGAA
CCAGGAGGCAAAGGGAAGAAGAACCAGAAATGTCAAGATTGGGAAGATCACAGTGTGAGAGAAGTGGCGGGAATCG
GTGTTCCGCCAGATACCAACGCCAATGAGCTCAAGTACCTGGACGAGTTCCTGCTCAACAAGATAAATGACCTC
CGTTCCCAAGACGCCATTGAGAGCTTGTATTCGAAGCCACCGAGAAGTTCAGGAGCAACATCAAAAACGATG
TACTCTGTCCGAACGGGAAGATCCACGTGGGCTACAAGGATCTGATGGAGAAGTACCAGATCGTCTGTCAGCAAC
CTGGCCACTGAGCGTGGCCAGAAGGACACCAACCTGGTCTCAACCTCTTCCAGTCACTGCTAGATGAGTTCACC
CGTGGCTACACCAAGAACGACTTCGAGCCAGTGAAGCAGAGCAAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGT
GCTGTCCAGGAGCACAACGGGCACGTGTTCCGACGCTACCAGGTTAGCATCCCGCAGTCGTGCGAGCAGTGCCTC
TCCTATATCTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCAC
AAGATTGAGAGCCACTGCTCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTG
TGCGTAGACAGCCTGACCAGCGACAAGGCCCTCGGTGCCCATCGTGTGGAGAAGCTCCTGGAACACGTGGAGATG
CACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCAGCACTCGGGAGCTCCGGCAGGCGCTG
CAGACAGACCCCGCAGCAGTCAAGCTGGAGAAGTTCCTCATCCAGCCATCACAGGGGTGCTGAAGCAGTGGCTG
CGGGAGCTGCCCGAGCCCCCTCATGACCTTCGCACAGTACGGCGACTTCCTCCGAGCCGTCGAGCTGCCGAGAAG
CAGGAGCAGCTGGCTGCCATCTATGCCGTCTGGAGCACCTTCAGAAAGCCAACCACAACCTCCCTGGAGAGACTC
ATCTTCCACCTTGTCAAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTACCTGGGGCGCTGGCCATTATCTTC
GCACCCTGCCTCCTGCGCTGCCCTGACAACCTCGGACCCGCTGACCAGCATGAAGGACGTCCTCAAGATCACCAG
TGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAATACAAAGTGAAGATGGAGGAGATCAGCCAACCTGGAGGCT
GCAGAGAGTATCGCCTTCCGACGGCTTTCGCTCCTGCGACAAAATGCTCCATGGCCTCTCAAACCTGGGGTTTTCG
TCTCCCTATGAGGGGGTCTGAACAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTG
GAGGAGGAGGCAGCCGGCGCGATGAGGACCGGGAAGGAGATTCTCATTGAACGGATCCAGTCCATCAAGGAG
GAGAAGGAGGACATACCTACCGGTGCCGAGCTGGACCAAGGGGCTCGGACGAGGAGAACCTGGACTCGGAG
ACGTCCGCCAGCACCGAGAGCCTGCTGGAGGAGCGGGCCGGGCGGGGGCCTCGGAAGGGCCCCCTGCGCCTGCT
CTCCCTTGCCCCGGCGCGCCACCCGAGCCCCCTCCCCACCGTGGCCGCCCTCCACGACGAAGGCCGCTCGTCC
TTCGTAACGGTCAGAGTGAAGACCCCCGGCGGACCCCCATCATGCCACGGCCAACATCAAGCTCCCACCAAGGC
CTGCCCTCCCACCTGCCTCGCTGGGCACCGGTGCCCGGGAGGCGGCTGCCCAGTGGCGCGCGGGAGCCACCT
GCCCCGCGCCCGGACAGATACATTCCGTGTACATACGCCCGGGGACAGCTGCCAGTGCAGGGCGCCCTGGAG
CCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTACTCGGATCCCCCAACGTACTGCCTGCCCCC
GCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTGACAAAGTCTGCATGTCCGAGGACGGCCCCCTGCACTGGAG
CTGGGCGCCAGAGCTGCAGAGCTAGTGTTCGGCCCTCAGAGAAGGATCCAGAATCAAAAGCTCAAGAGTGACGTG
AGGTGGGCACCGGCCCAAGTGCAGAGTCAAGGCAGGGAGAGGCGGGCTGGAGCCAGGCCCCCTCGCACGCAGCC
CCCAAATCATGGACGCACCTGTGGGGAGCACCATCTCCACCTGCGGCCTCACATCTCCCCACTCCCCCTTTTG
TACGTTTAACTGTTTCTTTGTACGTGGTTTACGTAACTTTAACTGTAACAGCCTTAATGGAAGACCAATGGTT
TTTTATATGTGTATGTACAAAGTTTTCTATTAACGCTGCCCGTCTCCCTTATAACCTGGACGTGAGCTGTCAGAG
CAGAAGCCACTAGGCCACTGCGCGTCTGAGGCTCAGACCCTGCTGTGGTTGGCTTGGGGTGGCCAATGGGCTGGG
ACCCTCCATGAGAGTTTTGGACACTTGGGTACCTGACCCGTGCCTCTCTGACACATGTCTCCGGGGGGCAGCCA
CCTGGCCAATGTGCATTTTTGCACATGCTGGAACCTTCATGGGGGTCTGGGCTATTGGCTGGAGCCAGGACATG
AGTCAGGGGCACCATGGACCTCAGTGCCAGGGAGACTTGAATGTGGCTGTCACTCTTCCGGACGCCAAGGGCTG

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FIGURE 5325C

CAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACTCAGGACTGCTCACGGGTCA
GGAGGGCAACGCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCTGGGGATCTCTGGAGCAGGGCCCTC
CTCTCTCAGGCTTGGCCCACTCCCCCAGACACCTGGACACGTGGCCACAAATCTGGGACAAGGGGCCCCCGCACA
GCATGAAATAAAAAGTGCCTGAGAAGTGTG

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FIGURE 5326

CCTGATCAGCGGGGCCGGGGCGGGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGG
CTGATTTAGAAGGAGGTTTCAGGCTACGGTGAGCCGAAGCCACACAGGAGCCATCGAAGTGGCAGAGCCCAGCAGC
CCCCTGAAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCCGCACTCGCTCCAATCCTGAAGGG
GCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGCGCAGCCGAGCGAGGGTGAGGGTGAGGCCGCCAGTGCT
GATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCTAAGTCCTGGCAGGTGCCCCCGCCAGCCCCCTGAGGTCCAA
ATTTCGGACACCAAGGGTCAACTGTCCAGAGAAAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCACTGCCA
AAGCTGGAGTCGTTCAACGGCTCCAAAACCAACGCCCTCAATGTCTCCAGAAGATGATTGAGATGTTTCGTGCGG
ACAAAACACAAGATCGACAAAAGCCACGAGTTTGCACTGGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGC
CTGACCTCCGACCCCCGCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTG
GAAGGACTTTTCAGCCTCATCCAGCAGAAAACCTGAGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCCGCCA
TATGTGGTCCGCACCATCCTTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAG
AAAATGTTCCAGTGCCCATATTTCTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGAG
ATGAGTTGGAAGATATGTTTGCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCAC
TGGCTGGGCCAGCCCTGGAGTTGCACAACCTGCATGGCGAAACTGTTGGCCCCACCCCTGCAGCGGCCTTGCCAGA
GCCATGCTTCCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTG
TACATCTGCACCTTCTTGTGCAAGGAAGTCCTTGGCCTAAAGCCTTGTTCTCAAACCTGGGTTCCTTGGGACCTC
CGGGGTGGGGGGGTTCCAGGAGGCACGTAGGGTACCTTGACGGGTCTAGGAGGGAACCCAGGATTCCAGGAGG
GATCCCAGGAACGTGGGCACCCATTTTCTGTGTCTCCAGCCCATTTCCACTCCTAGTTTGTCTATGGATAATTT
TTGTTCTTCCCTGTGTGATTTTTGCCATCAAAATAAAAATTTGAGACTCGTTAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5327

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEGEAASADDGSLNTSGAGPKSWQV
PPPAPEVQIRTPRVNCPKVIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDKSHEFALVVVN
DDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQKTELPVTENVQTIPPPYVVRTILVYSRPPCQPQ
FSLTEPMKKMFQCPYFFFDVVYIHNGTEEKEEEMSWKICLPSWAAWIPRVPATSMRHHWLGQPWSCCTAWRNCWP
TPCSGLARAMLPACWRRRMKPLRLRPLSEPSLYICTFLCKEVLGLKPWFSNWVPWDLRGGGVPGGT

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FIGURE 5328

GTGGAATTCATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTT
CTGCTGGGGATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAG
GCCAACAGCGAGGCCTGCCGGGACGGCCTTCGGGGCAGTGATGGAGTGTCGCAATGTCACCCATCTCCTGCAACAA
GAGCTGACCGAGGCCCAGAAGGGCTTTCAGGATGTGGAGGCCCAGGCCGCCACCTGCAACCACACTGTGATGGCC
CTAATGGCTTCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACA
TTAAACCATAAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACCAGGTCTTAAGCGTGAGA
ATCGCGGACAAGAAGTACTACCCAGCTCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTG
CTGGGCCTCAGCGCTCTGCTGCAGTTGAGATCCAGGAAGCTGGCACATCTTGGAAGGTCCGTCTGCTCGGCTTT
TCGCTTGAACATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGG
GTAGCCGGAGAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGCAGTCCTGGGTGTGGGGACACAGTCGGGT
TGACCCAGGGCTGTCTCCCTCCAGAGCTCCCTCCGGACAATGAGTCCCCCTCTTGCTCTCCACCCTGAGATTG
GGCATGGGGTGCGGTGTGGGGGGCATGTGCTGCCTGTTGTTATGGGTTTTTTTTTTCGGGGGGGGGTGCTTTTTTTC
TGGGGTCTTTGAGCTCCAAAAAATAAACACTTCCTTTGAGGGAGAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 5329

MASTSYDYCRVPMEDGDKRCKLLLGIGILVLLIIVILGVPLIIFTIKANSEACRDGLRAVMECRNVTHLLQQELT
EAQKGFQDVEAQAATCNHTVMALMASLDAEKAQGQKKVEELEGETITLNNHKLQDASAEVERLRRENQVLSVRIAD
KKYYPSSQDSSSAAAPQLLIVLLGLSALLQ

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FIGURE 5330

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC
TGGCGACGCGTGGTGGCGAGGCTCCGCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC
TTCCGGGCAATCTCCGCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTTCGGTCGCGAGCGCTGCCGTCGG
GAGGCGCTCCGAGGTTTCGAGGCTGTGCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCGTACC
CGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGTCGTCGGCCTCTGCACCCCCGCCGCGGGGGTTTCAGCGC
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG
CCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCAT
GTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGAC
AGTGCTTGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCCGAGGCC
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAG
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCGCCTGCCCCCAGCGTCTCATAGTCCCTCACCCCTCCGCG
GAAAGAGCCCCCTTACTCCACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA
GGAGGGGGCGGGTCGAGGCTGCGTGGTGATGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC
AGAAGCCAGTGCCTTTAAGTCATTTGTGTCAAACCCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCCTGGCAA
TAAACACTACCCGGTTCTCGCC

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FIGURE 5331

GCTTCCTCCTCCCCGCCGCCGCCCTCGCCATGGCCGCGCCGGCCCCGGGCCTCATCTCGGTGTTCTCGAGTTCCC
AGGAGCTGGGTGCGGCGCTAGCGCAGCTGGTGGCCCAGCGCGCAGCATGCTGCCTGGCAGGGGCCCCGCCCGTT
TCGCGCTCGGCCTGTGCGGGCGGGAGCCTCGTCTCGATGCTAGCCCGCGAGCTACCCGCCGCCGTCGCCCCTGCCG
GGCCAGCTAGCTTAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCA
CGTACGGCCTCTACCGGGTGAGAGCTACGGGGGCCGCCGGGGATCACGCCGAGAGGGCCACAGCCACCGCCTACA
CCCCGGCTACGGAGGCCGCCGGGGGCCATGCCGAAAGGGCCGCGCCCACTGTCTGCACCTCGGCCTACGGGGGCCA
CTGGGTATCATGCCAAGAGGGCCGTGCCCACTGCCTGCACCTCGGCCTACGTGGGTGCTGGGGGTCATGCCAAGA
GGGCCGCGCCACCGGTTGCCCTCGGCTACGGGGGCCACTGGGGGTATGCCGAGATGGTCACGCCCACTGCCTG
CACCTCGACTACGGGGGCCGCTGGGGGTCTAGCCGACAGGGCTCGCCCGCCTCCTGAACCCCGCCTACAGTGGGT
CCCGCAGGACCTCACTGCGCCCTCTGCCTTTATCTAGGCAGGGCTAGAAATGGTCTACTTGAGTCCGTCTTCCT
GCTTCATCCGGTGGCCAGGCAGAGGGAACGGCACGGGCAAGGGCCTGGAAGGGAATCCGAGTGGCCCATGTCAA
CGATGCCCATAACTCAGCCCCGTAGCGGACGGGGGCACGAGGAATCAGGTGTAGAGCCTGAATCTCAGGGTCCTG
ATCTCTAACCCAGCGAGTTCTCGGGGATCCCTGGGCAGCTTTGCCGCTCTGATGGCTCTGCTTCCAGGCTGTT
ATCTTTGGCTTTGAGCCTCAGGATTCTATAGAATCAGAGGAGCGCGCTCTTTTAAAGACAGGGTAACTGAGGCTT
GGAGGAGCCTTGCCCTGGCCGAGGGAAGAGTGGGAGGGGCGGGCTCAAAGGCCAGGAACCTCAAGTCACTTGAGT
CTGGCAGCGTCAAGGGACACCCCATGCTGGGTGTGCCGTCTTCTCTTTGCATAGAATCTTGAGCTGATGATGGTT
TTGTGGGTTTTTTATTAAGAGAAAAGGCTTACTGAACGCTTTATATGCATCAATTCATGAGTCCGTACCACAGCC
TATGAGATGTTACTCATTTTACAGATGGAGAACTGAGGCCAGAAGAGGTGAGCTTACCTGCCCCAAGGCATCT
AGTGACCAGAGGGGCAGCCAGGGTGTGATCCTGCCTCATCTGACTTCGTAGTTGGGTACACATTTAACTTCCGCC
TTCCTGTGTGTGTTTTCCAAGAGCATCATTAAAAAGTTTTGGCCGGGTGCGGTGGCTCACGCGTGTAAATCCAGC
ACTTTGGGAGGCCGACGTGAGTAGATCACCTGAGGTCAGGATTTGAGACCAGCCTGGCCAACATGGCAAACTC
TGTCTCTACTA

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FIGURE 5332

AAGATGGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTCACTGCTCCTCGTGGTGGGCAGCGAGTTC
GGGAGCCCGGGGCTCCTCACCTACGTCTGGAGGAGCTCGAAAGAGGCATCCGGTCTTGGGATGTGATCCTGGC
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCCTGGTCTCTGAACCCATCAGACAAGTCCCTGTAT
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCTCTGCCTGGAGGAG
ACGGGGGAGCTGCTGCTACAGACAGGGGGCTTCTCGCCTCACCATTCTCCAGGTCTGAAGGACAGAGAGATC
CGGGACATCCTGGCCACCACGCCCCACCTGTGCAGCCGCCATACTCACCATCACCTGCCCCACCTTCGGTGAC
TGGGCTCAGCCGGCACCCGCTGTGCCTGGCCTTCAGGGGGCGCTCCGGCTCCAGCTGCGGCTGAACCCCCGGCG
CAGCTGCCCCAACTCTGAGGGCCTGTGCGAATTCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC
GAGCTGCTGGAGCCCCCGACCTCCGGGGGCTTCTCAGGCTGGGCGGGCCTGCTGCTACATCTTCCCTGGAGGC
CTCGGGGATGCCGCTTCTTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCAAGTCCAGT
TTCTGGAAGCTGGTGCGGCACCTGGACCGCTGGATGCCGTGCTGGTGACCCACCCTGGCGCCGACAGCCTCCCC
GGCCTCAACAGCCTGCTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGGCTCCTGGGACGAC
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTCTTCAACGCCTGCGAGGCGCGCTCGCGGCTGGCG
CGCGGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCTGGCGCAGCTGGGCATCACGCCTCTGCCACTCAGCCGC
GGCCCCGTGCCAGCCAAACCCACCGTGTCTTCGAGAAGATGGGCGTGGGCGGGCTGGACATGTATGTGCTGCAC
CCGCCCTCCGCCGGCGCGGAGCGCACGCTGGCCTCTGTGTGCCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC
GAGAAGGTGGTGCAGCTGTGTTCCCCGGTTGACCCCGCCCGCCTGCCTCCTGGACGGCCTGGTCCGCCTGCAG
CACTTGAGGTTCTGCGAGAGCCCGTGGTGACGCCCCAGGACCTGGAGGGGCGGGGCGAGCCGAGAGCAAAGAG
AGCGTGGGCTCCCGGGACAGCTCGAAGAGAGAGGGCCTCTGGCCACCCACCCTAGACCTGGCCAGGAGCGCCCT
GGGGTGGCCCGCAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCCAAGACCCCCCGGGAG
TTGAGGAAAAGACCCCAAACCGAGTGTCTCCCGGACCCAGCCGCGGGAGGTGCGCCGGGCGAGCCTCTTCTGTGCC
AACCTCAAGAAGACGAATGCCAGGCGGCACCCAAGCCCCGCAAAGCGCCAGCACGTCCCACTCTGGCTTCCCG
CCGGTGGCAAATGGACCCCGCAGCCCGCCAGCCTCCGATGTGGAGAAGCCAGCCCCCCCCAGTGACGCTGCGGC
TCTCCGGCCTCCAGCTGGTGGCCACGCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG
GAGCTGCCTTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCCTCCCTGAGTCCCAACCGGAGCCCCGAGAG
GGCAGCGAGCGGCTGTGCTGAGGCCACTGCGGGGCGGGGAGGCCGGGCCAGACGCCTCACCCACAGTGACCACA
CCCACGGTGACCACGCCCTCACTACCCGAGAGGTGGGCTCCCCGCACTCGACCGAGGTGGACGAGTCCCTGTG
GTGTCCTTTGAGCAGGTGCTGCCGCCATCCGCCCCACCACTGAGGCTGGGCTGAGCCTCCCGCTGCGTGGCCCC
CGGGCGCGGCGCTCGGCTTCCCCACAGATGTGGACCTGTGCTGGTGTACCCCTGTGAATTTGAGCATCGCAAG
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCGGCAGCTCGAATGACAGCAGTGCCCCGGTCACAGGAACGGGCA
GGTGGGCTGGGGGCGGAGGAGACGCCACCCACATCGGTGAGCAGTCCCTGCCCCACCTGTCTGACTCGGATCCC
GTGCCCCGTGGCCCCCGGTGCGGCAGACTCAGACGAAGACACAGAGGGCTTTGGAGTCCCTCGCCACGACCCCTTG
CCTGACCCCCCTCAAGGTCCCCCACCCTGCCTGACCCATCCAGCATCTGCATGGTGGACCCCGAGATGCTGCC
CCCCAAGACAGCACGGCAAACGGGAAAGTCAAGCCGACCCGGAAGCCCCCTGGCCCCGCCCAACTCACGCGCTGC
CGCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGGCTTGCTGGTGGGGACCGTGCCAGCCGACCACT
CAGTGCCCGGAGTGAAGCCAGTGAGAAGGGAGGCGGGCACCCCTGTCCAGAAAGTCTCAACCCCCAAGACTGC
CACTCGAGGCCCCGTGCGGGTCAGCCAGCAGCGGCCCGGGGTGTGAGCCACCCACCCAAAGTCCCCGGTCTACCT
GGACCTGGCCTACCTGCCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTTCTTCCAGCGCGTGCGCGCGCT
CTGCTACGTCATCAGTGGCCAGGACAGCGCAAGGAGGAAGGCATGCGGGCCGTCTGGACGCGCTACTGGCCAG
CAAGCAGCATTTGGGACCGTGACCTGCAGGTGACCCTGATCCCCACTTTTCTGACTCGGTGGCCATGCATACGTGGTA
CGCAGAGACGCACGCCCCGGCACCAGGCGCTGGGCATCACGGTGTGGGCGAGCAACAGCATGGTGTCCATGCAGGA
TGACGCTTCCCGGCGTGAAGGTGGAGTTCTAGCCCCATCGCCGACACGCCCCCACTCAGCCAGCCCGCCTG
TCCTAGATTACGCCACATCAGAAATAAAGTGTGACTACACTTG

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FIGURE 5333

MAVAGSGAAAAPSSLLLVVGSEFGSPGLLTYVLEELERGIRSWDVPDGVNLDLQKVFVSRHSATFSSIVKGQ
RSLHHRGDNLETLVLLNPSDKSLYDELRNLLDPASHKLLVLAGLCLEETGELLLOTGGFSPHHFLQVLKDREIR
DILATTPPPVQPPILTITCPTFGDWAQPAPAVPGLQGALRLQLRLNPPAQLPNSEGLCEFLEYVAESLEPPSPFE
LLEPPTSGGFLRLGRPCCYIFPGGLGDAAFFAVNGFTVLVNGGSNPKSSFVKLVRLDRVDAVLVTHPGADSLPG
LNSLLRRKLAERSEVAAGGGSWDDRLRRLISPGLGVFFNACEAASRLARGEDEAELALSLLAQLGITPLPLSRG
PVPKPTVLFEKMGVGRLDMYVLHPPSAGAERTLASVCALLVWHPAGPGEKVVRVLFPGCTPPACLLDGLVRLQH
LRFLREPVVTPQDLEGPGRAESKESVGSRDSSKREGLLATHPRPGQERPGVARKEPARAEAPRKTEKEAKTPREL
RKDPKPSVSRTQPREVRRASSVPNLKKTNQAAPKPRKAPSTSHSGFPPVANGPRSPPSLRGGEASPPSAACGS
PASQLVATPSLELGP IPAGEEKALELPLAASSIPRPRTSPESHRS PAEGSERLSLSPLRGGEAGPDASPTVTTP
TVTTPSLPAEVGSPHSTEVDESLSVSFEQVLPPSAPTSEAGLSLPLRGPRARRSASPHDVDLCLVSPCEFEHRKA
VPMAPAPASPGSSNDSSARSQERAGGLGAEETPPTS VSESLPTLSDSDPVPLAPGAADSDDEDTEGFGVPRHDPLP
DPLKVPPPLPDPSSICMVDPEMLPPQDSTANGERQPHPEAPGPPQLTRCRPQSHSSGCCQNQGACWWGPCQPTTQ
CPE

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FIGURE 5334

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCACCCCAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCCGGCACCGCGCCCGAGCCCACTCCATTTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

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FIGURE 5335

MKASGTLREYKVVGRCLPTPKCHTPPLYRMRI FAPNHVVAKS RFWYFVS QLKMKMKSSGEIVYCGQVFEKSPLRV
KNFGIWLRYDSRSGTHNMYREYRDLTTAGAVTQCYRDMGARHRARAHSIQIMKVEEIAASKCRPFAVKQFHDSKI
KFPLPHRVLRRQHKKPRFTTKRPNTFF

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FIGURE 5336

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGCC
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG
ACGACGACAAACACGTTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGGCGCCTCGACCAGCTGGAAC
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGTGGCCA
CGTCCAGCAAGGTCACCCGGGCCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA
CAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCGTGCTGGAGGAGGGCA
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA
TGCGGCTGTGCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG
CCGTGCCCTTCAATGCCCCCAAGTGAGCCCAGAACTTGGGGAGCCAGTTCACCCACGGGTGGTCCAGGTCACGAC
TCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGCCGGGCCCCGGGGC
CATGCTCTTATCACCAGCCACCCGTCCTCCCGCCAGAGGGTCCCTGCCCGAGTGACACCCCATCCCCTCCCATC
CCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

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FIGURE 5337

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCTGGCTGTGCTGCCTCAGGCACA
TTACTTAACCTTTCTGGGCCTCTGCCACCTCATCTGTAAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAGTATATCCCATGCAA
CATTTGGGATATACTTATACTAAAAAAATTTATTTCATTGATGCTATGGTTTGAATGGTCCCCCAAAGTTCATAT
GTTTGAACTTAATCCTCAAAGCAGTCCTTTCAACCTTGTC AACCTGTCGGCGCGGCCTCTGGTGCAGTGGCGGC
GGCTCCTGTTTCTGCGCAGCTCTCTCCCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCCCCCATGGCTTT
ACTTACTGCGGCCCGCCCGGCTCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCCAGCATGCCAGTGC
TTCTCCATGAATTTGAAAGACATATTGGCTGACCTCATACCTAAGGAGCAGGCCAGAATTAAGACCTTCAGGCA
GCAACATGGCAAGAAGGTGGTGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATT
GGTCTATGAAACATCAGTTCTTGATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAGAGTGGGCAAAGAGGGCAGCTCTGCCTTCCCATGTGGTCAC
CATGCTGGACAACCTTTCCCAACATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA
AAGTAACTTTGCCCAAGCATATGCACGGGGTATCAGCCGAACCAAGTACTGGGAGTTGATTTATGAAGACTCTG
TGGATCTAATCACAAAGCTACCTTGTGTCGCAGCAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG
GGGCCATTGACTCTAACCTGGACTGGTCTCACAGTTTCACCAACATGTTAGGCTATACTGATCATCAGTTCCCTG
AGCTCATGCACCTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACCAGCCACTTGG
TGGGCAGTGGCCTTTAGACCCCTTACCTGTCTTTGTCAGCAGCCATGAACGGGCTGGCAGGGCCTCTCCATGGAC
TGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTCTCAGATGAGAAGT
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCCAGGCTATGGCCATGCAGTACTAAGGAAGA
CTGATCCACGATATACCTGTCTCAGCGAGAGTTTGCTCTGAAACACCTGCCTAATGACCCCATGTTTAAAGTTGGTTG
CTCAGCTATGCAAGATTGTGCCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGGCCCAATGTAGATG
CTCACAGTGGGGTGTCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCTGTGTTGGGGTGTAC
GAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCCAAGTCCATGA
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAAACCTGGAGACTGGGGGAAAAGTGACTACCAGA
AAGTGAGGAAGCCTAAATAAAAAAGTATACTTTTGTTCAGGGGGCCTTTAAAGACTTAAGATTAAATTATATCTG
AGGCACTGATAATATGTTTGGAGTTAAATATAAATTAAGACTTTAAAGATGAAAAATGGTCCCTTCTTCCCTA
ATCAGCTCCTTTCCCTGCCTGGTATGAGTTGCCCATCACAGGCATGGTCCTGGAGGATGACCAGGACTAATGCA
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAATCTGGCTCCTGTTTCCATGGCTCAAAGCC
GGTTGCAGAGAATCTGCAGTCACTTCGGAGCTTTAGCTTCTTCTCTGCCAAGCCCTCAATAAGCCAGCAAACCAG
GACTCTGCCCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCCCTTGGCCTTCCCATGCA
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTATACTGCCAAGTGACCA
TAAAGGCATGGCATTGTTGTGACTGGCACCCAATGTTTGATTTTTTTTTTAACTATCCAATAAAAATTAAGGT
CTGGGAGTGTCTGTTTCCCATTACTTTAATACTACCCCCCTCCAGACTTTCTACACCTGTTTCACCTCAGGC
TGAGGATGTTCTGGACCTCCCCCTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGG
TTTTATCAGTGCTTAATGTGAACCTAAGTTTTTACTTCCAACAGAATACAAGCCACTACCTTCTGACCTCCCCAC
CCCCACCAACCCCCAGCTTTAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTTT
CAGAGTCTTGTCCCTGGGGTATTAGCACCTCTTTTGAACAGAGAATTGATTCAAGATTGGACATGGTCTCCTCT
GATTATCAGGTACTGGGGCTGAGGGCATTAAAAATAGTAAGCCTCCTTCTCGTCCCCTGCCTCAAGAAATTGCC
TCCTTATTTATCAACATCTTTTCTCCCTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAAGCCCCATT
TGCACAGGTTTTTCAGCAACTCAGAAATGCTCTACTTCTTTTCTTTGAGAAAGGATTGAGATACGCTCCTGCTGTG
CCCCATCTTCTCCAAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCCAGAACCACTGTTGAGTTGGAC
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTTGTTCTGTATAAAATGCAAAATAAAT
GTTTTAATTAAC

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FIGURE 5338A

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCCAGCCGAGCCCAGTCTCGGATCCC
TCGCCGACCCGATTGCACTCGGCTACCTCTGGAAACGCTCGGCTGTCTCGGGGGCACCTCTAGTCCACCAGTCC
CGCGGGATTACGTTTCGGCTACTTCCGGAAACACTCGGCTGCCCCCTTACCTCAGGCTCCGCTCGGCCCTCGGTTTC
ATCCGCCCCGGCTCGAATGCGCTCGGGCATTTCGCCCGGGGGCGGGCCAGGCCGCTCGGAACCGTGGCGGCGGCGG
AGGCGGGGATCCCGCGGCTGCGGCGACGGTGGCCGCGGTGGAGCCACGGGGCGGGCTTGGCTTGGTGTGACGGCG
GCTGCGGCGGCGGTGGCGGCCGCGACAGGTGCGCGTCTCAGCTGGCCGAGCATGGTGGCAGCCTGCACCCTTG
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGTGAGCGG
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCAGTGACCTGACACCACACCACCAACTCCCTCCCA
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGGCCCTTGTAAAGGTTCATGGAATAATTTGAAGCGAGGCATGAG
CGGCCCCGTGTGGTGCCTGTGACTGCTGGAGATAGAGGTCCAGCACCCCAAGCCAACCCAGCGGACCCTCCCAG
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCCAACCCACTCACGCGG
CCATGGCGGGCCCTGAGGGCTTCCAGTACCGCGCTCTGTACCCGTTCCGCCGGGAGCGGCCGGAGGACCTGGAGC
TGCTGCCCCGCGACGTGCTGGTAGTGAGCCGGGCGGCCCTTGACGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT
GCCACAGAGCGTGGGCTGGATGCCCGCCCTCAACGAGCGCACACGGCAGCGAGGTGACTTCCCTGGCACCTATG
TGGAGTTCCTGGGGCCCGTGGCCCTGGCCCGGCCCGGCCCTCGCCACGGGGCCCCCGCCACTGCCCGCCAGGC
CCCGTGATGGGGCCCTGAGCCAGGCCTCACACTCCCCGACTTGCCCGAGCAGTTCTCCCCACCTGATGTGGCTC
CCCCTCTTCTGGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCGGAGC
TGCCCGCACCGCGTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGGACACGGCAGCCCTGGCTGACGGCATT
AGAGCTTCTGCTGGCACTGCCCGCGCGCTCGTGACCCCCGAGGCCTCGGCCGAGGCGCGCCGGGCCCTGCGGG
AGGCCGCGGGGCCCGTGGGGCCGGCGCTGGAGCCACCGACGCTGCCGCTGCACCGCGCGCTCACGCTGCGCTTCC
TGCTCCAGCACCTGGGCCGCTGGCCAGCCGCGCCCGGCCCTGGGTCCCGCGGTCCGGGCCCTGGGCGCCACCT
TTGGGCCGCTGCTGCTGCGCGCGCCGCGCCCGCCCTCGCCCGCCGAGGGGGCGCTCCCGACGGGAGTGAGC
CCAGCCCTGACTTCCCGCGCTGCTGGTGGAGAAGCTGCTTACGGAACACTTGGAAGAGCAGGAGGTTGCGCCCC
CAGCGCTGCCGCTAAACCCCCCAAGGCAAAGCCGGCCTCCACAGTCTTGCCAATGGAGGGAGCCCACCCTCCC
TGCAGGATGCTGAGTGGTACTGGGGGGACATTTCAAGGGAGGAGGTGAACGAGAACTCCGGGACACTCCCGATG
GCACCTTCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCCTCAGGAAAGCGGGAACA
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCATATGGCTTCTCAGAGCCACTCACCTTCTGCTCCGTTGTGG
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCAGTACAATGCCAAGCTGGACACACGGCTCCTCTACCCTG
TGTCCAAATACCAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCAGTGGGCGCCAGCTTAAGGTCTATC
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCAGGAGCTGC
AGATGAAGCGTACTGCAATTGAGGCCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA
AATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAAGGATCTGTGAACT
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCAGG
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGGACCTCATGCAGCTGCGCAAGATCCGAG
ACAGTACCTCGTGTGGCTACCCAGAAAGGCGCCCGGCAGAAAGAAATCAACGAGTGGCTGGGGATTAAAAATG
AGACTGAGGACCAGTACGCACTCATGGAGGACGAGGACGATCTCCCGCACACGAGGAACGCACCTTGGTACGTGG
GCAAGATCAACCGCACGCAGGCAGAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA
GCCAGCGGGGCTGCTACGCCCTGCTCCGTGGTAGTGGACGGCGACACCAAGCACTGCGTCATCTACCGCACGGCCA
CCGGCTTCGGCTTCGCGGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCTGCACTACCAGCACGCCT
CGCTGGTGCAGCACAAACGACGCGCTACCGTACCCCTGGCGCACCCAGTGCGCGCCCCGGGGCCCCGGCCCGCGC
CTGCCGCCCCGTGAGCACCGAGGACCCGCCCCAAGCAGAGCCGCCCCCTGGGCCCCGTCTGCGCCGGAGGCTGCGGC
GGCGGGAGCCACGGACCAGACCAGCCACATCCAGGGGTCTCATTCTCCGGCTCTGGCTCTTGTTTGGGGTTCT
CTACCCCTCTTCTCTTCTTCTTCCCTCCCCATTCTCCAGATCTCCCTCTGTCTCTTCTCTGTCTTCTTGG
CCCCTGTCTCTCTCCATGTTGGGGTCTTAACCTCCCCACCCCATATCTACGTGTCTTCCGGGCATTGCCCTCTC
CATGGCTCTGGTACCCCTGACCCTCTGCCCTGCCACCGCAGGTCCCCCGGGGTCCCGGAAGCCCCCTTCTGGCTG
CACCTGCCATGTTTACAGAGGGGCCCTGGGCTGCGCGGGCCCCAGCCTGGGCACCCCTGATTTTTAAGCCATAGACC
TGGGGTCAGGGCAGGAAGGAACCTCACTCTGCTGCTTCCGAGAACCTCGGCCGTGACATTGGGGCCGGGCGGGA

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FIGURE 5338B

CCCGCCCCACAGACTCCAACCTCCCTCCAAACCCCGAAGTGAAACCCGCCACCGGGTTACCCCCACAAGGGGGC
CGCTGCGAGAAGTTCACCCACCCCGAAAAATAATTAAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTGAGGTCGGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA
AAACCCCGCATCTACTAAAATACAAAAATTAGCCGGGCGTGGTGGCGGCCGCCTGTAATCCCAGCTACTTGGGAG
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC
CTGGGTAAACAGAGGGAGACTCCTCCGTCTCAAAAAATAAATAAAATAAACTTGTGAGCTGGCCCCAACCCCTCCT
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGAGTGGCCAAGTTGCGACACTGCCCACGGCCCCCTCCCTCTGAT
GCAGATTCAGGGCTTCTCTTCGATCATGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAAACCTCTTTCCTC
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

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FIGURE 5339

GGACCGCCGCTGGTTAAAGGCGCTTATTTCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCTGCTGCGAT
GACCCCTGTCGCCACTTCTGCTGTTCCCTGCCACCGCTGCTGCTGCTGCTGGACGTCCCCACGGCGGCGGTGCAGGC
GTCCCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCAAGTTAACTACAAGACAGGCAATCTATACCTGCG
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCCTCTACTATGAAGCACTGTGCGGTGGCTGCCG
AGCCTTCCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT
CAACAAGGTGGAGGCCTGCGTGTGGATGAACCTTGACATGGAGCTAGCCTTCCTGACCATTGTCTGCATGGAAGA
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCTGCAGCTCTACGCCCCAGGGCTGTGCGCCAGACACTATCAT
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCCAGCGGACAGATGCTCTCCAGCCACC
ACACGAGTATGTGCCCTGGGTCACCGTCAATGGGAAACCCTTGGAAGATCAGACCCAGCTCCTTACCCTTGTCTG
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAGTGTTTGCTTCAAGTG
ATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTTCTGATCCAGAC
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTTATGCATCCCATGAAGCCCAGATACACAAAATTCACCCCA
TGATCAAGAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAAAGTAGTTTAAT

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FIGURE 5340

MTLSPLLFLFPLLLLLDVPTAAVQASPLQALDFFGNGPPVNYKTGNLYLRGPLKKSNAPLVNVTLYYEALCGGC
RAFLIRELFPTWLLVMEILNVTLPYGNAEQNVSGRWEFKQHGEEECKFNKVEACVLDELDMELAFITIVCME
EFEDMERSLPLCLQLYAPGLSPDTIMECAMGDRGMQLMHANAQRTDALQPPHEYVPWVTVNGKPLEDQTQLLTIV
CQLYQGKKPDVCPSTSSLSVCFK

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FIGURE 5341

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC
CTCCACCAGCCTCCAGGCCTCTGCCC GCGCCGTTCCCTCCGCTGGAATGCGCCTCCCGCCCCAACCCAACCTG
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTCCGGGGCAGGGCGTGTCCGTGTCTGGCTGCTA
GCACCACCCTGCCCTCAGTCTGTTCAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCGGATG
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACCCTCGTGGAGCTGCTGCT
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTTGCCCCAACCTCATCTGCAACTTTCATTGCC
TTGGGGACTTTCAGGATTAAGCGATTCTGGACAAGAAACAAAAGCAAAATCGTCCCATTCCTCAGTGGATTTGG
ATGAAAACCTGGAAATAAAATCAGGTACAAC TCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT
TGCACATGA

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FIGURE 5342

MCPEGCQYTGRGHTLRTPQLGEAGGLHQPPGLCPRRSLRLECASRPNPTLCLLRLPSLRPGDPSPGAGRVRVWLL
APPCPQSVSGEMAQYLEKPRVCGRMQAKPTHHDALRSGITSLTTRGAAAEIKVKMQSPGPSVAPTSSATFIA
LGTFRIKRFLDKKQKQNRPIQWIWMKTGNKIRYNSKRTLEKNQAGSIRNCT

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FIGURE 5343

GCAACCTGCACAGCCATGCCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTGCTGGTG
CTCTCGTGGCTGCCGCATGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCGGGACCCTCAGAG
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACCAGGCTGCGGGCCAAC
CAGAGCTGGGAAGATTTCGAACACCGACCTCGTCCCGGCCCCCTGCAGTCCGGATACTCACGCCAGAAGTGCGGCTG
GGATCCGGGCGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCCGAGGCCTCCCGCCTT
CACCGGGCTCTGTTCCGGCTGTCCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGCGTCAGCTC
AGCCTTGCAAGACCCCAGGCGCCCGCGCTGCACCTGCGACTGTGCGCGCCGCGCTCGCAGTCGGACCAACTGCTG
GCAGAATCTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGCGGCCGCAAGCCGCCAGGGGGCGCCGCAGAGCG
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCCGGGCGTTGCTGCCGTCTGCACACGGTCCGCGCGTCGCTG
GAAGACCTGGGCTGGGCCGATTGGGTGCTGTGCGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTGCCCG
AGCCAGTTCCGGGCGGCAAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCCGACACGGTGCCA
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAAAGACCGACACCGGGGTGTCGCTCCAG
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG
GAGGACGCGACCTCAGTTGCTCCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCCGATTCTGCCCAAACA
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG
ATGGAACCTGTGTATTTATTTAAACTCTGGTGATAAAAATAAAGCTGTCTGAACTGTT

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FIGURE 5344

MPGQELRTVNGSQMLLVLLVLSWLP HGGALSLAEASRASFP GPSELHSEDSRFREL RKRYEDLLTRLRANQSWED
SNTDLVPAPAVRILTPEVRLGSGGHLHLRISRAALPEGLPEASRLHRALEFRLSPTASRSWDVTRPLRRQLSLARP
QAPALHLRLSPPPSQSDQLLAESSSARPQLELHLRPQAARGRRRARARNGDHCPLGPGRCCRLHTVRASLEDLGW
ADWVLSPREVQVTMCIGACPSQFRAANMHAQIKTSLHRLKPDTPAPCCVPASYNPMVLIQKTD TGVS LQTYDDL
LAKDCHCI

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FIGURE 5345

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCCGCTGCCGCCGCCGCCGCCGCCGCGTCTGGAG
CTCCCCCGCGCGGACGATGCTTGCCGTGCCCGCTGGGGCTCGGGGCGGTGAGGCCCGGGGCGCGGGGTAGCTAT
GGCGACGGCAAGCGCGGCCCGCGGCCCGCTGACAGGTGTGGGCCCCGGCGGCGGCGGCGGTGGAGCAGCATGTA
CGCCAAGGGGGGCAAGGGTTTCGGCCGTGCCCTCCGACAGCCAGGCCCCGCGAGAAGTTGGCGCTGTACGTTTATGA
GTACCTGCTGCACATCGGTGCCCCAGAAGTCAGCCCAGACCTTCCTGTCTGAGATCCGATGGGAGAAGAACATCAC
GCTGGGGGAGCCCCCTGGGTTCTTGCACTCCTGGTGGTGCCTCTTCTGGGACCTGTACTGCGCGGCGCCTGACAG
AAGAGAGGCCTGCGAGCACTCCGGCGAGGCCAAGGCCTTCAGGACTATAGTGCTGCAGCCGCCCCAGCCCCGT
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGCAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCGG
CTCCCAGCCGTCCCCCACAACCCCAACGCCCCCATGATGGGGCCTCACGGTCAGCCCTTCATGTCACCGCGCTT
CCCAGGGGGCCCCCGGCCACCCCTGCGGATGCCGAGTCAGCCTCCGCGAGGCCTCCCTGGCTCCCAGCCCCCTCCT
CCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCCTCGCCGG
CCCAGGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAAACTCGATCCC
CTACTCCTCCTCATCCCCGGCAGCTACACCGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC
TAGCCCTGGAGATTCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG
GGCTAATTTCCCGCTCGGCCCTGGCCCCGAGGGCCCCATGGCCGCCATGAGCGCGATGGAGCCTCACCACGTGAA
CGGATCCCTGGGCTCGGGCGACATGGACGGGTGCCGAAGAGTTCCCCCGGCGCCGTGGCCGGCCTGAGCAACGC
CCCGGGCACCCGCGGGACGACGGCGAGATGGCGGCCGCCGGGACCTTCCTGCACCCGTTCCCGAGCGAAAGCTA
CTCGCCAGGGATGACCATGAGCGTGTGATGGGGCGGCAGCCCCGGGCCTCTCTGCGGGCCTAGGCTTCTGCCCCAG
CGCCCCCTGCTCAGGGCGAGGGGCTGAGGTACACCTCGGGACCTGGACTCCTGGCCAATCAAGGCTTGCCACG
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAAAAACGCAAGGACCTCAGAGACGTTCTTTTCTGTATG
GACCCCTCCTGCCATTTGTATTTTGTCCAGAGAGAAAGGCTCTTTGGGGGGCCCCCTCTCCCCAGGACGTCAGGG
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTGGTTTTTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5346

MYAKGGKGSAPVSDSQAREKLALYVYEYLLHIGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWVCVFDLYCAAP
DRREACEHSGEAKAFQDYSAAAAPSPVMGSMAPGDTMAAGSMAAGFFQGPPGSQPSPHNPNAPMMGPHGQPFMSF
RFPGGPRPTLRMP SQPPAGLPGSQPLLPGAMEPSPRAQGHPSMGGPMQRVTPPRGMASVGPQSYGGGMRPPPNL
AGPGLPAMNMGPGVRGPWASPSGNSIPYSSSSPGSYTGPPGGGGPPGTPIMPSPGDSTNSSENMYTIMNP IGQGA
GRANFPLGPGPEGPMAAMSAMEPHHVNGSLGSGDMDGLPKSSPGAVAGLSNAPGTPRDDGEMAAAGTFLHPFPSE
SYSPGMTMSV

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FIGURE 5347

CGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACACACTGGTGCTGCACAACACGTGTGAG
GACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGAGCTGTGCCAGCGCGTGAGCTTCTGC
ACTGACATGGACCCCGAGCCGCAGACCTTCCACCCCGTGCTGTCCCTGCTCAGCTTCCTCTTCAAGGCGCCACTA
GTGCCGCCCCGGCAGCCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTGCATCGAGAACATCCTCAGGGCCTGC
GTGGGGCTCCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCGCCAGGGCCCAGCCTCAAGCGAGTT
GGACCCGTGGCTGCCACCTACCTATGTTGAACAAGAAAGGACCGGTACCCGCTGCCACCAATGGCTGCACCGGT
GATGCCAATGGGCATCTGCAAGAGGGGCCCCCAAAGAGCCTTTCTCTCTGGGACAAAATACAAATGGCAGGAAG
GGTCCATACAGAAAAGAACGTCTCTGAGGTCTTGCCTTTTAAATAAAATGGTAAGAGTCTTTCGTGTGGGGCCT
CCCAGCTGGGCAAGCCTTGATTGGCCAGGAGTCCAGGTGCCCAGGTGTGACCTCAGCCCCCTCGCCCTGAGCAGG
GGCGCTGGGCAGAAGCCTAGGCCCGCAGAGAGGCCCGGGGCTGCCGCCCCATCACACGCTCATGGTCATCCCTGG
CGAGTACTGCGGAGAGAGGAGGGGGCAGCGCGCAGGGGCCGAGTTTCTGCTCCGGAAGAGGCTGGGACCCGCCCCC
AGGGACAATGGGGGACAGGGCAGGGCTGGGTCTGGGCAGACATGGGGTGGGGACAGGAGGGAACGGGGGAGGGG
CGATGCATGGGAAGGCCGCCCTGGGGCGCGGGTCCCGGGTGGGGGCGGATGGGATCGGGACGGTGAAATAGGAG
CGGGAGGTGGTGGGGGGTGGGGAGAGGTTGAGGAGAGG

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FIGURE 5348

MLGGTNTLVLHNTCEDSLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFHPVLSLLSFLFKAPLVPPGSPVVNA
LFRQRSCIENILRACVGLPPQNHMLLEHKMERPGPSIKRVGPVAATYPMLNKKGPVPAATNGCTGDANGHLQEGP
PKEPFSLGQNTNGRKGPYRKERL

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FIGURE 5349

GACTTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCTCTGCCTGTTTCC
CCTGCAGTGTCTCTGACCCAGACCCCTACCTACCCCCCGGAGGCCAGCTTCCCTGCCCAGCTCCACCCCTG
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTGTAAAGGGGGGATAGGCAGCCATGAGCCCTTGGGG
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGGACGCCTGGCCACTTCCGCCAGGCGGGGACCCG
ATGGCCACGGTGGCTCTGGGTTGTCTGGGCTCGAACCGGGTCTCCAGACGTTGGGCCCCCTCCCTCCAGCGCGGG
AGAGGCGGGGAAGGGGGCGGGGCGGGGAGGGGCCGAGCGCTTTTCTCCGAGGTGCGCGCCCCGAGAGCCCGC
GCTGTCCGCCGCCGCTGCCTGAGTCGACTCTGCGCCGCCGCGCGATGGAGGCCGCCGCCAGTTCTTCGTGCGA
GAGCCCGGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACGAGTACCGGACGACGCGCTCAGCCGCGA
GGGTGGCGTTCTCAAGGTGCACCCACGTCCACGCGCTTACCTTCCGGACCGCCCCGGCAGGTGCCCGGCTCGG
GGTCATGCTTGTCTGGCTGGGGCGGGAACAACGGCTCCACACTACCGCCGCGGTGCTGGCCAATCGACTGCGTTT
GTCCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGCACCCTGAGCCT
GGGCTGGACGCCGAGGGCCAGGAGGTGTTCTGACCTTACGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT
CGTGTTCGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATGCGGCGCGCGAAGGTGCTGGACTGGGG
GCTGCAGGAGCAACTGTGGCCGCACATGGAGGCCCTGCGGCCCGGCCCTTCTGTTTACATCCCCGAATTCATCGC
GGCCAACCAGAGCGCGCGCGCGGACAACCTCATCCCAGGCTCGCGTGCGCAGCAGCTGGAGCAGATCCGCAGGGA
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGCTGTGGACGGCGAACACGGAGCGCTTCTG
TGAGGTGATTCCAGGCCTCAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTCGCC
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGCTGTGCCTTCTCAATGGGTCTCCGCAGAACACCCTGGT
GCCCCGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAA
AGTCAAGTCCGTGCTTGTGGACTTCCTCATTGGCTCCGGCCTCAAGACCATGTCCATCGTGAGTTACAACCACCT
GGGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAGTTCCGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT
GGACGACATGGTGCAGAGCAACCCAGTGCTCTATACGCCCGGCGAAGAGCCTGACCACTGCGTGGTTCATCAAGTA
TGTCGCGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC
ACTGGTGCTGCACAACACGTGTGAGGACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGA
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCCGAGCCGAGACCTTCCACCCCGTGTGTCCCTGCT
CAGCTTCTCTTCAAGCGCCACTAGTGCCGCCCGGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG
CATCGAGAACATCCTCAGGGCCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG
CCCAGGGCCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACC
CGCTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCACCACCTGAGG
CCCCGGTCACACAGTTTCTCGGCTCTTCTCCCGCTGCCCCCACGACCCTACCTTGAAGGCCCCACAAATAA
AGGCGCTGCCACTCAGCCCTCCTTCCACCTGGGGTTCTTGGGGCCTGTGACCTGA

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FIGURE 5350

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGACATGGG
ACAACCCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCGAGAGTTCCTTGCTGCCATGGAGCCCCGAGCC
CGCCCCAGCCCCGGCCCCAGAAGAGTGGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC
AGGGCCGCCAGGTTTCGAGCCGCCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTTCACTCTGGGTGACTGTGACGTATCCAGGCCCTGGATCTCAG
TGTCCCACTCATGGACGTGGGGGAGACGGCCATGGTCAGTCTGACTCCAAGTACTGCTACGGCCCCCAAGGCAG
CAGGAGCCCATACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA
CCTGGAGATGCTCACGGGGCAGGAGCGCGTGGCCCTGGCCAACCGGAAGCGGGAGTGCGGCAACGCCCACTACCA
GCGGGCGGACTTCGTCTGGCCGCCAACTCCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGA
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGGTGAAGTGTCGAACAACCTGGCGGCCTCGCAGCT
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGCTGCTGGAGCACCAGCCAGACAACATCAAGGC
TCTCTTCGCAAGGGCAAGGTGCTGGCCCCAGCAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT
GAAGCTGGAACCTTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTGAAGAAGCATGCGGCGCAGCGGAG
CACGGAGACCGCCTTGTAACGGAAAATGCTGGGCAACCCCAGCCGGCTGCCTGCTAAGTGCCCTGGCAAGGGTGC
CTGGTCCATCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCTTGGGGGGTGTGGCACTCTCTGTGGTCAT
CGCTGCCAGGAATGACCACCTAGGTGGCTGCCACCCCCTCTGCACACCATGGACCCTGCCCTGCGCTCCCCAAC
TCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTAGGGGAGCAAGGATTGGGGGT
CGTGACGCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCCAGAGGGAGGGGGCCCTCATTCCTTC
AGACCCAGTTTTCCCCCACCCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCCTCAA
CAGGCCTGGGGGCAGCCCTTCCCCGTGCTAGTCCCGCCTGAGTGCCAGCCCCCACCCTGCGGCCCTG
TCCAGGTTCCCTCCCCGCCACAGTGAAATAAAGCATCCACCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5351

MGQPPAEEAEQPGALAREFLAAMEPEPAPAPAPEEWLDILGNGLLRKKTLVPGPPGSSRPVKGQVVTVHLQTSLE
NGTRVQEEPELVFTLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYGPQGSRSFYIPPHAALCLEVTLKTAVDG
PDLEMLTGQERVALANRKRECGNAHYQRADFLAANSYDLAIKAITSSAKVDMTFEEEAQLQLKVKCLNNLAAS
QLKLDHYRAALRSCSLVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPIILRAALKLEPSNKTIHAELSKLVKKHAAQ
RSTETALYRKMLGNPSRLPAKCPGKGAWSSIPWKWLFGATAVALGGVALSVVIAARN

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FIGURE 5352

CTTGGCGCAGGCTGGAAGAGGAGCTGGTGAGAAGACAGCGAAATGGCGCCTCCGGCCCCGGCCCCGGCCTCCGGC
GGCTCCGGGGAGGTAGACGAGCTGTTGACGTAAAGAACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAAC
GAGGCGCAGCGGGTGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCCTGTATAGAGCGTACCTG
GCGCAGAGGAAGTTTCGGTGTGGTCCTGGATGAGATCAAGCCCTCCTCGGCCCCCTGAGCTCCAGGCCGTGCGCATG
TTTGCTGACTACCTCGCCACGAGAGTCGGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGC
GTGGACGTGACCAACATCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCC
CTGCGTGCCTGACACCAGGGGGACAGCCTGGAGTGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGC
CTGGACCTCGCCCCGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCCAGCTCGCCACT
GCCTGGGTCAGCCTGGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAG
TGCTCGCCCCACCCTGCTGCTGCTCAATGGGCAGGCGGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAG
GGCCTGCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCCTGTCCCAG
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCCAGCTGAAGGATGCCACAGGTCCCATCCCTTC
ATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACAGTACGCTCCCAGCGCCTGAGGCTGG
CCCAGAGCTGTCAGGACCATGAAGCCAGGACAGAGGCCAGGAGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCA
CCTGCATCCCCCTCTGGGGGCAGGAGCCCACCCCCAGCACCCCCATCTGTTAATAAATATCTCAACTCCAAAAAA
AAAAA

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FIGURE 5353

MAPPAPGPASGGSGEVDELFDVKNAFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVLDEIKP
SSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSVDVTNITFLLMAASIYLDQNPDAALRALHQGDSLECTA
MTVQIILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATGGGEKLQDAYYIFQEMADKCSPTLLLLNGQAAC
HMAQGRWEAAEGLLQEALDKDSGYPETLVNLIVLSQHLGKPPPEVTNRYLSQLKDAHRSHPFKEYQAKENDFDRL
VLQYAPSA

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FIGURE 5354

GACATGTCTGCTAGCCAAGGAGCACCACGAGTGGCCAGCAGCCACCAGAGCTGGGAGAGAGGCCTGGGACGGCCT
TGCCCTCCAGCCTCCAGCTGGAGCCAGCCCTGCCGCCACCTTGACTTCAGACTTACGGCCTCCAGAGCTGTGAGG
AACGAATCCCTGTTGTCCTTAAGTGCCCGGGCTGTGGTGCTTTGCCACAGCAGCTCCAGGACATTGAGACAGGTG
ACCTCCCAGGGCCACTGTTTCTCCACCCCTGCACTTACTTACCAGCTGGAGTGAAGGCAGGGAACCCCTGGGTCC
CCCAGGAGCAGCAGCTGCTGTGAGCATCACAGAAAAGCAGCCCCGGAGAGCAGGCGGTCCAGGCAGGGGCTTGTG
GTCCGTTTCATCTGGCTGCACAGCCGCGACCTCATTGGCAGGACGCCCCGGGGACAAGGAGCATCCATTAGTAATT
GGTTTTGGTTTTGATTTTGTCTTGTAGATACGGTCTTGCTCTGTCTCAGCCTGGCATAAGTGGCACAATC
TTGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGTGATCATCCACCTCAGCCTCCCGAATAGCTGGGACTACA
GGCAGCATCACCATGCCTGGCTAATTTGTATATTTTTTAGAGATGGGGTTTTGCCTGGCCGGGCGCAGTGGCTC
ACACCTGTAATCCCAAAGCGCTGGGGTTACAGGTGTGAGCCACAGTACCGGCCCATTTGGTAATTGTAACACCT
TAGGATGACAACATTACAGTACCAACGCTACGACAAGTGGCAGTGTATACACCTTGTGTGCTGGAGCCTCAG
GAAGCTTTGTAAGATGGTCTTGGGAGCTCCTTGCTCCTCCCTGCATGATCCCTGTAACATGGTCCCTCAGCAG
GGGAAACAGACTCAGACCTGAAGTCACTTGCTGTGGACCTGGCACTGTGGCGAGCCCTCAGTGGAGCCTGGTT
GGTATCAGACATGCCATGCCCTCAGTGACACCTCAGACACGGGCCCTGGGCAGACAGCCCCAGATGCGCGTGGA
TGCTTACGGGGTCACAGAGCCACGTTTGAACCCAGAAGAACCAGCTTTGGTCTAGGGTGGCCCCCTCACCTGC
CTTCTCTTTTAGCTGCTCAATAGCCATGGGGAATGGAGGGTCTGGGTCCAGTTAGGGACATGGAGGCATGGGTG
ACCTGTGCCCTCGGAGCTGAGCCGGTCTCAGCCTTGCTGGGCTCAAGCCTGGCCCTGGCCCGCAGCACACTGG
CCATCTTCAGGGTGCAGCCAGCACCCTGGGCTCTCAGGGACTGAGGGCAGCTGCCCTGGCAGTGGGGGTGCCCCA
GGGCTCCCATCCTTCTGCACGGCCCCCTCGGCACCCAGGCCGACCTCCTGCTAGAAGACGTGGCCTTGAAGCCCAC
AGGGTTGATGGGTTATGGTCAGGAGTCCAGCTGGGCCCCACCAGCCTCCTCAGGAAGGCGGGTGGAGTTGGTGTG
AGACTGACGGTGCCTCCTCATGTCCCCTTGGAGCGCCCCACCCACATCTCCCGGCCCTCGGGTCTTGCTGGCC
CAGCATGAGAGGTGCTTCATAGGAACGGAGGGAGGACATGTGGGACAGCTCGATGCTCGGCCTGCTGCTGCTCT
GCACCCCCAGGGCCTGGCTCACCTCTCTGGACCTGTCTGCTTCCAAGGAAGGGGACCCCTCTGAGGTCCACAGA
GGCCACCCAGCTGTGGGTCTGTAGCATCTCTGTCTTGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATG
AGCAGGAGCGTGGACGTGACCAACACCACCTTCTGCTCATGGCCGCTCCATCTATCTCCACGACCAGAACCCG
GATGCCGCCCTGCGTGCCTGCACAGGGGGACAGCCTGGAGTGGTGGTGGCCTCCCTGCTCTGGGGCCAGCCC
AGGGAGGCAAGTGCCCCCTGCCACATCTCAGGCTGCGCACGGCCTCGCTGGCTGTGCTCATGGGAGCAGAGAAA
GGTGGTGTGAAATGAGGCCCTGGCCTGCTGTCCAGGCTCCAGCTCCCCTGCCAGTGTGGGAGGCACTCCCATC
TGCGCACCAAGGCTGCAGATCCAAGGACACGGTGCCAGGCTGCAACCCCTGTGTTCCCAAGGGCAGAGCAGAAAGC
GGCTTTGTCTCTGCTCGGTTTCTGTGTCCCCACCCCCACGAAGCCTTCTGTGTCTCGGCCCTGGGCCAGTCTC
TCAGGCCTCCCCGGGCCCCCATACCGGCCCTCCTCAGGGCCCTCTGGGGTTGGGGTGTGAAGCCCTGCAAGG
TTGGTGGCCCCCTCCACCTAGGATGTGACTCCGGGCCATGTCCAGGGCACTGGTCACAGAAAGTGTGTGAGTTC
TTCCCCGTGAGCTGTCCCTGCAGTGCCTGCCTTCCACTGTGAGTTGCAAGCTGGGCATTTTCATGGTGCCTGTGGA
TCTGCTCCCATCCCACCTCCATCCACAGAGGGCTTAGAATTGCAGGGCGAGCCAGGCATGGTGACATGCACCTAT
GTTTCCAGCTACTTGGGAGGCGGAAGCAGGAGTATCCCTTGAGTCTGGGAGGTGGAGGCTGCAGTGAGCCGTGAT
GGTGCCACTGCACTCCAGCCTGGGTGGCAGAGCCAGACCCTGACTCACACAC

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FIGURE 5355

GCAAAACATTTCCCTGCTGGGGGCGGCGACCACCGTGAGCGTCCCGGAAGGGGCGGCAAAGACGCCTCCGTGCGG
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTCGCGGTTCGTCTTGTTATCGTGAGCGTCCGCGAGTCTCTGGG
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCGTACGGCGGCCGGAAGGGGCTAGAGGCGGCTCCCTGGGTG
ACAACGCGCGCCCCACCTTTCCCCACGTGGCCGCGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA
TCAACACAGGCGAAGATCGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG
GAGTTTGCATGGGGCCAGAGGAGGCAGTGAAAAGAGGCCGTGGAGCAGTTTGAATCGCAAGGGGTTGATCTGAGC
AACATTGTAAAGACGGCACCTAAAGTCTCTGCAGACGGATCCCAGGAGCCACACATGACATCCTGCAGATGCTC
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCAGGAGGTGTGAGCATACCTCACCCGCTTCTGCGACCAG
TGCAAACAGGACAAGGCCTGCCGCTTCCTCGCGGCCAGAAAGGGGGCCTACCCCATCATCTTCACTGCCTGGAAG
CTGGCCACTGCAGGTGACCAGGGCCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGGTGCTGACTGATGGACAGCCA
GACCTCCTGGATGCCCAGGGCCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC
TGCTCTGGGATCCGCTGTGTGCGTCACGCTTGCTGAAACATGAACAGAATCGGCAAGACCTGGTGAAAGCTGGC
GTGCTGCCTCTGCTGACTGGTGCCATCACCATCATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC
CTGCGTGTGATGACCTTCGATGACGACATCCGTGTGCCCTTTGGCCATGCCACAACCATGCCAAGATGATTGTG
CAGGAGAACAAGGCTTGAAGGTGCTCATCGAAGCCACAAAGCGTTTCTGGATAACCCTGGCATCCTGAGCGAG
CTCTGTGGAACCTGTCCCGCTGGCCATTGCAACGAGTTCTGCCAGGAGGTGTCGACCTCGGGGGCCTGAGC
ATTCTGGTGTCCCTGCTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTGAGGAGCTCGTGAAG
CAAGTGCTGAGCACCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAGCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC
TTCTTGGCCCTGCGTAAGCCCGACAACAGCCGCATCATCGTGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC
ATGAAGGCACACCCGCGAGAAGGCCGGCGTGCAGAAACAGGCTTGATGCTGATCCGAAACCTGGTGGCCACGGC
CAGGCCTTCTCGAAGCCCATCCTGGACCTGGGGGCTGAGGCACTCATGATGAGGCCCGATCTGCCACCCGTGAC
TGTGAGGACGTGGCCAAGGCCGCCCTGCGGGACCTGGGTGTGATGTCGAGCTCCGAGAGCTGTGGACAGGCCAG
AGGGGCAACCTGGCGCCATGACCCCCAGGCCAGTCTGGGCCGTGACTCTGGGTGAGTCGTGTGACTCAGGAATGG
GGGTAGATCCATGTCTCCACTGTCCCCATTAGTTCTGTCCCTTACAATGAGAAGTGTCTTCTGGCAGGCC
TAGGTAAAGGGTCGGGGGAGGGGGGAGCCTTGTAGGGAGGCCTCTACACAGAAGAAAGCAGCCCCCATGTCCCAG
CCACTTCTGGGTCCCAGCCAGCAGCACGGATGTTACTGTCTGCTCCTTCCCCAGCCCCACGCCCTACCAGAGG
GGGCAAAGGGCACGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCCTGCTGCTTACTGCAGTTTCATGCAGGCCCTCTGCTCCTTG
TCTTTCTTACCTGTAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGTCTGTCTCTGGGTCTGGG
CCAGCCAGGATACCTGATAATAAAAGATCATTGGGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5356

MVSKRIAQETFDAAVRENIEEFAMGPEEAVKEAVEQFESQGVDSLNI VKTAPKVSADGSQEPTHDILQMLSDLQE
SVASSRPQEV SAYLTRFC DQCKQDKACRFLAAQKGAYPIIFTAWKLATAGDQGLLLQSLNALS VLTGQPDLLDA
QGLQLLVATLTQNADEADLTCSGIRCVRHACLKHEQNRQDLVKAGVLP LLTGAI THHGHHTDVVREACWALRVMT
FDDDIRVPFPGHAHNHAKMIVQENKGLKVLI EATKAFLDNPGILSEL CGTLSRLAIRNEFCQEVVDLGGLSILVSL
LADCNDHQMRDQSGVQELVKQVLSTLR A IAGNDDVKDAIVRAGGTESIVAAMTQH LTSPQVCEQSCAALCFLALR
KPDNSRIIVEGGGAVAALQAMKAHPQKAGVQKQACMLIRNLVAHGQAFSKP ILDLGAEALIMQARS AHRDCEDVA
KAALRDLGCHVELRELWTGQRGNLAP

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FIGURE 5357

GGCCGGTGGGTGAGTGCACCGGTTCTCGCACGCGTCATGGCGGTCTCGGAGTACAGCTGGTGGTGACCCTGCT
CACTGCCACCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAAACGGCAGTTTGT
CCGATACAAGCACCCGCTCTGAGGAGGAGCTTCGGGCCCTGGCGGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCG
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCGAGATGCCCCGTTCCAGCTGGAGACCTGCC
CCTCACGACCGTGGATGCCCTGGTCCTGCGCTTCTTCCTGGAGTACCAGTGGTTTGTGGACTTTGCTGTGTACTC
GGGCGGCGTGTACCTCTTCACAGAGGCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT
CTGGTGCCTGCTCACGGTGACCTTCTCCATCAAGATGTTCTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCTCTTCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG
GGAGGAGACCCTCGAGCTGGGCCTGGAGCCTGGTCTGGCCAGCATGACCCAGAACTTAGAGCCACTTCTGAAGAA
GCAGGGCTGGGACTGGGCGCTTCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT
GGGTGCCTTCTCACCTTCCCAGGCCTGCGGCTGGCCCAGACCCACCGGGACGCACTGACCATGTCGGAGGACAG
ACCCATGCTGCAGTTCTCCTGCACACCAGCTTCTGTCTCCCTGTTTCATCCTGTGGCTCTGGACAAAGCCCAT
TGCACGGGACTTCTGCACACAGCCGCCGTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC
TGGGCGCCTCTGGTTGCTGGTGGTGCTGTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT
GTGCCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGCATCGAAGCCCGTGAAATCCAGCAGAG
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGAGCTTGAGTACCTGACGCCGCTCATCCTCACCTCAACTG
CACACTTCTGCTCAAGACGCTGGGAGGCTATTCTGGGGCCTGGGCCAGCTCCTCTACTATCCCCGACCCATC
CTCAGCCAGCGCTGCCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT
GGGTGGCCTGCTTACTCCCTCTTCTCCGTGGCGTCTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT
GCTCGCCAGCCTTTTCGGCCTCTACTTCCACCAGCACTTGGCAGGCTCCTAGCTGCCTGCAGACCTCCTGGGGC
CCTGAGGTCTGTTCTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTGGCCCCCGTGTCCCCAGCTGCAAG
GTGGGGCCGGACTCCCCGGCGTTCCCTTACCACAGTGCCTGACCCGCGGGCCCCCTTGGACGCCGAGTTTCTGC
CTCAGAACTGTCTCTCCTGGGCCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGTT
TGAGTGGCAAGGGTGATGCTGGCTGCTCTTCTGAACAAATAAAGGAGCATGCCGATTTTT

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FIGURE 5358

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCAGAGGGCCCGCCCTCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCCCTTTTCCTTGAGAGACG
AGTTGGGGGAGTCCTCCACGCATTACCCACTCGGGCCGCAAAAACCTCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCTCTCCACAGGGCAGCTCCCTGAAGCACTCCACCCTCTCACCAACCGGCAGCGAGGGAACGAGGTGTC
AGCTCTGCCGGCCACCCTAGACTGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTCACCCCCCTCATCTG
GGCCTCCGCCTTTGGAGAGATTGAGACCGTTTCGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAA
AGAGCGAGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGA
CGTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATG
CGTTGAGGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGC
CGTGGCCCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGT
GCCCGCTGACCCTGAGTGAAGGCCCGCCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGG
GGAAACCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCCTCCCAAGAGGAACCAATA
AACCTTCTGTGCAGAATGA

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FIGURE 5359

MELTQPAEDLIQTQQTASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQGSSLKHSTTLTNR
QRGNEVSALPATLDCDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIV
GLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENHILK
LFQSNLVPADPE

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FIGURE 5360

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCAGAGGGCCCGCCCTCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCCCTTTTCCTTGAGAGACG
AGTTGGGGGAGTCTCTCCACGCA⁺TTACCCACTCGGGCCGCAAAA⁺ACTCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCC⁺ATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCCACCCTCTCACCACCGGCAGCGAGGGAACGAGGT
GTCAGCTCTGCCGGCCACCCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAA
GGAGCATTGTGCGGAAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCCTC
CGCCTTTGGAGAGATTGAGACCGTTCGCTTCCCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAAGAGCG
AGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGA
CATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATGCGTTGA
GGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGC
CCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGC
TGACCCTGAGTGAAGGCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGGGGAAAC
CCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTT
CTGTGCAGAATGA

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FIGURE 5361

MELTQPAEDLIQTQQTASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSSLKHSTTLTN
RQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLEWGADP
HILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYT
PMDLAVALGYRKVQQVIENHILKLFQSNLVPADPE

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FIGURE 5363

MQEPRRVTHCLGKRGVKTPLQPGSAFLPRVRRQSFTARSDSYTTVRDFLAVPRTISSASATLIMAVAVSHFRPG
PEVWDTASMAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLYGHWSIMKWNRRRRRLQIEDFEA
RIALLPLLQAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPPLIGELYGLRTTEEALHASHGFMW
YT

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FIGURE 5364

GCCCCTCCCCGCCCCGCCTCCCGGCGCGGGTGGCCGAGGCGTAGCGCTGCGACCCCGCACCCCTGCTAACATGG
CGCTGCGAGTGGTGCGGAGCGTGCGGGCTCTGCTCTGCACCCTGCGCGCGGTCCCGTCACCCGCCGCGCCCTGCC
CGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGCACTGGACCCGCTCTGCTCTCGGTGCGTA
AATTCACAGAGAAACACGAATGGGTAACAACAGAAAATGGCATTGGAACAGTGGGAATCAGCAATTTTGACAGG
AAGCGTTGGGAGATGTTGTTTACTGTAGTCTGCCTGAAGTTGGGACAAAATTGAACAAACAAGATGAGTTTGGTG
CTTTGGAAAGTGTGAAAGCTGCTAGTGAACCTCTATTCTCCTTTATCAGGAGAAGTAACTGAAATTAATGAAGCTC
TTGCAGAAAATCCAGGACTCGTAAACAAATCTTGTTGTGAAGATGGTTGGCTGATCAAGATGACACTGAGTAACC
CTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATACATAAAATCTATTGAGGAGTGAAAAAATGGA
ACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTCCTTAAATTAGTGGTGGATAGAAGACTTAG
AATAGAAACTTTTAAATATTACCGATGGGGGAAAAAACTACTGTTAACTGCTAATGAAAGAAAATGCCTTTAA
CTTTCTAATGATTATAGATAAAATATAATATGCATCTTTTTTACAATATCCTATGATTTTTTAGACTAGGCTCTAGT
GTTCAGAATTCATGAAATTATCCATGGTAAAACTAGTTATAAAAATTACATAATTCAAAGATAACATTGTTATT
CTTAAGCCTTATATAATATTGTAACCTGCATGTATCCATACCTGGATTGGGATGAAATACTTAATGATCTTTCC
ATTGGAATAACTGGAAGTGAAGAGGTTTTTGTTGCTTGACAGTGTGAGATGAGGAACACCACTATTTTAATTTT
GCGATACACTGCATTTGCTGGTGCTATTTTTTATACAGTGAAGCAACAGCTTTGCAGCAAAATAATAAAATACTTC
TTTGTT

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FIGURE 5365

MALRVVRSVRALLCTLRAVPSPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTTEKHEWVTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCCEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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FIGURE 5366

TACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTG
CGCATGCGTGGCACCATTTCCTCGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAA
GAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCT
CCCGCTCCTGAGTTCCTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGCCT
ATTCAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGAAGACTGGTCTGCAGCTCCCACTGCTCAG
GCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTG CATAGGCTCTTAAGCAGCATGGAAAA
ATGGTTGATGGAAAAATAACATCAGTTTCT

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FIGURE 5367

GCTTTTCCATGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACTTAAAGGGAACTTT
CACAATGTCCGGAGCCCTTGATGTCCTGCAAATTAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCA
CTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCAT
AAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGT
CAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAAT
TGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTTGGT
TACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTCGCGCTGTGTAA
CACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGAT
GTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCC
TGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAA
GGAGGAATTTAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTC
TGAAGGTGTGCAGGTGCCCTCTGTGCCTATTAGCAATTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGA
AGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCT
TGCATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 5368

MSGALDVLQIKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFWEPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLCYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDP EEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPMEDWSAAPT AQATEWVGATTDWS

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FIGURE 5369

CTTTCGGTGATGACAACCTTCCCACAAGAGGACATGCCTCTCACAAAGGATCTCCTTCATCCCTCTCCAGAAGA
GAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCTACTTCATGGATGTGAAATGCCCAGGATG
CTATAAAGTCACCACGGTCTTTAGTCATGCACAAATGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCTGCCA
GCCTACAGGAGGAAAAAGCAAGGCTTACAGAAGGATGTTCTTCAGGAGGAAGCAGCACTAAAAGCACTCTGAATC
AAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

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FIGURE 5370

GTCGTCACGCGTCCCGCGCCTCCTCGCGCCTGCGCCGTGGTTGGAAGGTCGTCCCTGTGACCGGCTTGGCGGTTG
GAGCGGCTGTGCGCATGTTGTCGGTAGCATCCCGCTCAGGCCCGTTGCGCGCCGTCCTGTGCGCCACGTCCCGCG
GGGTGGCGGGCGCGCTGCGGCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGA
AGCGGCCCTTCCTCAGCCGGGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTCGCCTCCGTGGGCCTCA
ATGTCCCTGCTTCTGTTTGTATTCCACACAGACATCAAGGTGCCTGACTTCTCTGAATACCGCCGCCTTGAAG
TTTTAGATAGTACGAAGTCTTCAAGAGAAAGCAGCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACCTGGAGTAA
CTACTGTGGGTGTGCGCATATGCTGCCAAGAATGCCGTACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATG
TGTTGGCCCTGGCGAAAAATCGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAG
GCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAGGAAGCTGCAGTTGAATTATCACAGTTGA
GGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCACTCATCTTG
GCTGTGTACCCATTGCAAAATGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCAT
CTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCACTGACGATATGG
TGATTGTTGGTTAAGAGACTTGACTCAAGTCATAGGCTTCTTTAGTCTTTATGTCACCTCAGGAGACTTATTT
GAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAATTGATGATGTATTTGCAAACATTAATGTG
AAATAAATTGAATTTAATGTTGAATACTTTAGGCATTCACTTAATAAAGACACTGTTAAGCACTGTTATGCTCA
GTCATACACGCGAAAGGTACAATGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTG
TG

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FIGURE 5371

ACTGGAGTAACTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCT
TCTGCTGATGTGTTGGCCCTGGCGAGAGGCCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAG
GAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTT
ATCCTGATAGGTGTTTGCACCTCATCTTGGCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGC
CCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCC
ACGTATGAGTTCACCAGTGACGATATGGTGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTCAG
TCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAAT
TGATGATGTATTTGAAACATTAATGTGAAATAAATTG

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FIGURE 5372

GGGCCTGCGGGAGCGCGGCCTTGCGGTTCCAGGACTCTTCTCCGGGCGCCTCGTCTCCTTACGCCACCCGCAAC
CCAAGCCAGGGCCCCGGTGACAGCGGCGGGGTGGGCCAGGACCGGGGAGGGGGTGCCAGCAGCGACCCCCGGCT
CCCCCTAAGGCCGGGCGCAGCTCGGAGCCAGGAGCTGGCCCGGCGCGTGGCTTCCCGGAAGGCCCGGCGCAGCCG
GAAGGTGGGACGGAGGGCGGGGCCAGCGCCGGGGCCGCCACCAAGGCCTGCGCGACCCCTCCGCGGGGCTGGGGAG
CTGGGCGGGGAGCCCCGGGGCCTGCCAGGCCCGGGCTGCAGCCGCGTCTGATCGCCGAGCGCGCCGCTAGACCTC
CGCTCCCCCAGCCACCGTCTGGATGCTGTCTGTACATACAGGCGCTTGGAGCTGCTGAGCTTTCTGAAAAGGGGG
ACCCCTTCTTAAACTCTAGGAACTAGAGTGGCATTGTGATGGAAATACTCTTATGCTCATTGAAACTGTCCCTC
TGAACCTTCTCCCTCGAAGGCCCGCCACGATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTC
TGGGGAGAGGAAGATGAAGGCGGTGTCAAGCACTCTGGGAAGGGTGCCCTGGTACAGGGGCCATGGCCTTCGT
CGGGGGTTTGGTGGGCGGCCACCGGGACTCGCCGTTGGGGGGGCTGTGCGGGGGCTGTTAGGTGCCTGGATGAC
AAGTGGACAGTTTAAAGCCGTTCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTAAACGA
AGCCGAGCCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCAGCTGACCGCGCTGGTCAATGGGCAGCGAGGC
CCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTCACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGA
CTAGGCCGACCTCCGGGGAGGTGGGGGGCCCCCTTTAAATGACTCTGTGATTCTGAAGAGGTGGCTTGGGAGTTG
GGAGAAGCCAGCGGATGCCCCCTGGGGAATCTCCACATCATCAGTGTATTACTAGTAATGTCCCGCTGGAGAGG
CCACCGCTGTGCAGTGTATGTTCCAGAAATTACTGATGAAGCAGCATGTGTTGGTGGCATGTGCACTGGCCTGC
CATGACAGCCCTCTGACTGGCCCCCAGTGAAGAGTAAAGGCCTGCCTGCCGAGGCTTCGGAGGCGTCTGCTGA
GTCTCTCACCCGATGGGTCTGGGGAAGTGATCACGCTCAGCCGACGGTCTGACCACACTTCATCCTCCCCCG
GGGCCTTCTCATCTTGGGAGATGACTCCTCTTCAGAGCACCTGCTGCAGGACTGGATCCCACCCCCCTGCAGGTC
CTGGGGTCTCAGGGCCTTGGAGCAGCCCATGCTGGAATCATGTTTACCTCCTAGTGCAACCGTCCCCTACCCAGG
GACTGTGCAATGGCCCCACGGAGGGGACGGGCGGCTGCTGAGTGAAGCCACAAATACCGAGTGGACTTGACCCC
GGCCCCACTAGGCTGCACACCTAGACTCGCCCTGCCAGGGCCTCGCTCTTCCCATCTGAAAAGTCTGGTAGTT
CTTGAGGTTTACTTCTCAAATGAAATATTTTTAGTAAAAAGTACAGGTATATCTCGGAGATATTGTGGGTTCAGT
TCCAGACCACCTCGGTAAAGCCAACATCACAATAAAGCAAGGAAGCGCATTGTTTTAGTTTTCCAGTGCATCTAA
GTCATGTTTACTGCATATTGCAGTCCACTAAATGTGCAATAGCATTATGTCTAACAAATGTACAAACCTTAATTT
AAAAATATTTACTGTTCAAATGCTGACACAGAAACGCAAAGTGAGCACATGCTGTTGGAAAAATGGTGCCAAATA
GACTTGCCTGATGCCAGGCTGCTACAAACCTTCAATTTAAAAAACAACAGTATTACAAAGCATAGTAGAAT
GAGGTATGCCTGTATTGCTCTTTCTGAAGTGGTGTGATATAAACCATCTCTAAGAAATGTTTCTACCTAAAGAT
TTCCCCAGTACAGTCAGCTCTCCGTAAGTGTGGTCTCCACATTTAGATCCAACCAGCCTTGGATAGGAAATATTT
GAAAAAAGAAATTGCATTGGTACTGAACACGTACAGACCTTTTTTTCTTGCCATTATTCCCTAAACAATATGGTG
TAGCATATTTACATAGCATTATATATTGATTGTTGTTATTAAGAAATCTAGAGATGATTTAAATTATACAGGAAG
GTGTGCGTAGGTTACGTGCAAACGCTATGCCATTGCCATCAGGGACTTGAGCATCCTCAGATGTCGGTGTCTGA
GGGTTGAGGTTGCAGTCTTGAACCCATCCCCATGGATACTGAGGCATAGCTGTACTGTGTGTTTCACTTTGC
TTTCAGAACTACGACTTGAATGTGATCGATTACAATAAATGTTTTTCT

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FIGURE 5373

MTIMVEDIMKLLCSLSGERKMKA AVKHSGKGALVTGAMAFVGGLVGGPPGLAVGGAVGGLLGAWMTSGQFKPVPQ
ILMELPPAEQQRLFNEAAAIIRHLEWTD AVQLTALVMGSEALQQQLLAMLVNYVTKELRAEIQYDD

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FIGURE 5374

AGCAGCCGGCGCGGCCGCCAGCGCGGTGTAGGGGGCAGGCGCGGATCCCGCCACCGCCGCGCGCTCGGCCCGCCG
ACTCCCGGCGCCGCCGCCGCGCCACTGCCGTCGCCGCCGCCGCTGCCGGGACTGGAGCGCGCCGTCCGCCGCGGAC
AAGACCTTGGCCTCAGGCCGGAGCAGCCCCATCATGCCGAGGGAGCGCAGGGAGCGGGATGCGAAGGAGCGGGAC
ACCATGAAGGAGGACGGCGGCGCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTG
CAGGATCCAGATGAAGAAATGGCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAAT
AATGCAGTCTGTGCAGACCCCTGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTTACCCAAAC
TCAACGTGCAAGCCTCGGATTATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAG
GAAGTCTGGAAAATCATGTTAAACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCTCTT
CTGCAGCCAAAAATGCGAGCAATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAG
ACCTTTTACTTGGCACAAGATTTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAG
CTTATTGGGATTTTCATCTTTATTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAGTTTGCG
TATGTGACAGATGGAGCTTGTTTCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGG
CGTTTAAGTCCCCTGACTATTGTGTCCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAA
GTGCTACTGCCGCAGTATCCCCAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCCTGGATGTT
GACTGCCTTGAATTTCTTATGGTATACTTGCTGCTTCGGCCTTGATCATTCTCGTCATCTGAATTGATGCAA
AAGGTTTCAGGGTATCAGTGGTGCACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGG
GAGACGGGGAGCTCAAACTGAAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGA
GACAGCTTGGATTGCTGGACAAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTC
CCCAGTGGGCTCCTCACCCCGCCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGGAATGGCGTGACCACCCCAT
CCTTCTCCACCAAAGACAGTTGCGCGCCTGCTCCACGTTCTTCTGTCTGTTGCAGCGGAGGCGTGCCTTTGCT
TTTACAGATATCTGAATGGAAGAGTGTCTTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAA
GTGTTTTTTTATTGAATGCTTATAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGT
GCGTGCTCCCGATGCTGCTATGGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAAGCTTGAAGCTGT
GGAGGGCCACGGTGGCGTGGCTCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGG
GCAAGCGTTGTGCAGAGCCCATAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAA
TGCCTTTGATGAACTGTTTTGTAAAGTGCTGCTATATCTATCCATTTTTTAAATAAAGATAATACTGTTTTTGAGAC
AAAAAAA

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FIGURE 5375

MPRERRERDAKERDTMKEDGGAEF SARSRKRRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCLSI
PTPDKEDDDRVPNSTCKPRIIAPSRGSPLPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLD
WLMEVCEVYKLHRETFYLAQDDFFDRYMATQENVVKTLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDE
ILTMELMIMKALKWRLSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILA
ASALYHFSSSELMQKVSGYQWCDIENCVKWMPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARA
KKAMLSEQNRASPLPSGLLTPPQSGKKQSSGPEMA

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FIGURE 5376

GTGCTACCCGGCCCCGGTGCCACCCGGGTCCACAGGGATGCGAAGGAGCGGGACACCAATGAAGGAGGACGGCGGC
GCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTGCAGGATCCAGATGAAGAAATG
GCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAATAATGCAGTCTGTGCAGACCCC
TGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTTACCCAAACTCAACGTGCAAGCCTCGGATT
ATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAGGAAGTCTGGAAAATCATGTTA
AACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCTCTTCTGCAGCCAAAATGCGAGCA
ATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAGACCTTTTACTTGGCACAAGAT
TTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAAACTCTTTTACAGCTTATTGGGATTTCAICTTTA
TTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAAGTTTGCGTATGTGACAGATGGAGCTTGT
TCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGGCGTTTAAGTCCCCTGACTATT
GTGTCTTGCGTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAAGTGCTACTGCCGCAGTATCCC
CAGCAAACTCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCTTGATGTTGACTGCCTTGAATTTCTTTAT
GGTATACTTGCTGCTTCGGCCTTGTATCATTTCTCGTCATCTGAATTGATGCAAAAGTTTCAGGGTATCAGTGG
TGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGGGAGACGGGGAGCTCAAACTG
AAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGAGACAGCTTGGATTGTCTGGAC
AAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTCCCCAGTGGGCTCCTCACCCG
CCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGAAATGGCGTAGACACCCCATCCTTCTCCACCAAAGACAGTT
GCGCGCCTGCTCCACGTTCTTCTGTCTGTTGCAGCGGAGGCGTGCCTTTGCTTTTACAGATATCTGAATGGAA
GAGTGTTTCTTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAAGTGTTTTTTATTGAATGCTTA
TAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGTGCGTGCTCCCGATGCTGCTAT
GGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAAGCTTGAAGCTGTGGAGGGCCACGGTGGCGTGGC
TCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGGGCAAGCGTTGTGCAGAGCCCA
TAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAATGCCTTTGATGAAGTGTTTG
TAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGACAAAAAAA

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FIGURE 5377

MKEDGGAEFSAERSRKRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLIPTDPKEDDDRVPNS
TCKPRIIAPSRGSPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLDWLMEVCEVYKLHRET
FYLAQDFFDRYMATQENVVKTLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDEILTMELMIMKALKWR
LSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCLVLDVDCLEFPYGILAASALYHFSSELMOK
VSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDDLKARAKKAMLSEQNRASPLP
SGLLTPPQSGKKQSSGPEMA

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FIGURE 5378

TATAAAAGCTGGGCGGGCGGGGCCATTTCGCGACCCGGAGGTGCGCGGGCGGGGCGAGCAGGGTCTCCG
GGTGGGCGGGCGGACGCCCCGCGCAGGCTGGAGGCCGCCGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCC
ATGGAGTCGGCCGACTTCTACGAGGCGGAGCCGCGGGCCCCGATGAGCAGCCACCTGCAGAGCCCCCGCACGCG
CCCAGCAGCGCCGCTTCGGCTTTCCCCGGGGCGCGGGCCCCGCGCAGCCTCCCCGCCCCACCTGCCGCCCCGGAG
CCGCTGGGCGGCATCTGCGAGCACGAGACGTCCATCGACATCAGCGCCTACATCGACCCGGCCGCTTCAACGAC
GAGTTCCTGGCCGACCTGTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGGCCGTGGGCCCCACGGGCGGC
GGCGGCGGGCGGCGACTTTGACTACCCGGGCGCGCCCCGCGGGCCCCGGCGGGCGCCGTATGCCGGGGGAGCGCAC
GGGCCCCCGCCCGCTACGGCTGCGCGGCCGCCGGCTACCTGGACGGCAGGCTGGAGCCCCCTGTACGAGCGCGTC
GGGGCGCCGGCGCTGCGGCCGCTGGTGATCAAGCAGGAGCCCCGCGAGGAGGATGAAGCCAAGCAGCTGGCGCTG
GCCGGCCTCTTCCCTTACCAGCCGCCGCCGCCGCCGCCCTCGCACCCGCACCCGCACCCGCCGCCGCCGCAC
CTGGCCGCCCCGCACCTGCAGTTCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCCGGTACCCCC
ACGCCGCCGCCACGCCCCGTGCCAGCCCGCACCCCGCGCCCGCGCTCGGTGCCGCCGGCCTGCCGGGCCCTGGC
AGCGCGCTCAAGGGGCTGGGCGCCGCGCACCCGACCTCCGCGCGAGTGGCGGCAGCGGCGCGGGCAAGGCCAAG
AAGTCGGTGGACAAGAACAGCAACGAGTACCGGTGCGGCGCGAGCGCAACAACATCGCGGTGCGCAAGAGCCGC
GACAAGGCCAAGCAGCGCAACGTGGAGACGAGCAGAAGGTGCTGGAGCTGACCACTGACAATGACCGCCTGCGC
AAGCGGTGGAACAGCTGAGCCGCGAACTGGACACGCTGCGGGGCATCTTCCGCCAGCTGCCAGAGAGCTCCTTG
GTCAAGGCCATGGGCAACTGCGCGTGAGGCGCGCGGCTGTGGGACCGCCCTGGGCCAGCCTCCGGCGGGGACCCA
GGGAGTGGTTTGGGGTCGCCGATCTCGAGGCTTGCCCCGAGCCGTGCGAGCCAGGACTAGGAGATTCCGGTGCCT
CCTGAAAGCCTGGCCTGCTCCGCGTGTCCCTCCCTTCTCTGCGCCGACTTGGTGCGTCTAAGATGAGGGGGC
CAGGCGGTGGCTTCTCCCTGCGAGGAGGGGAGAATTCTTGGGGCTGAGCTGGGAGCCCCGGCAACTCTAGTATTTA
GGATAACCTTGTGCCTTGGAAATGCAAACTCACCGCTCCAATGCCTACTGAGTAGGGGGAGCAAATCGTGCCCTG
TCATTTTATTTGGAGGTTTCTGCCTCCTTCCCGAGGCTACAGCAGACCCCATGAGAGAAGGAGGGGAGCAGGC
CCGTGGCAGGAGGAGGGCTCAGGGAGCTGAGATCCCGACAAGCCCGCCAGCCCCAGCCGCTCCTCCACGCCTGTC
CTTAGAAAGGGGTGGAAACATAGGGACTTGGGGCTTGGAACTAAGGTTGTTCCCTAGTTCTACATGAAGGTGG
AGGGTCTCTAGTTCCACGCCTCTCCACCTCCCTCCGCACACACCCACCCAGCCTGCTATAGGCTGGGCTTCC
CCTTGGGGCGGAACTCACTGCGATGGGGGTACCAGGTGACCAGTGGGAGCCCCACCCCGAGTCACACCAGAAA
GCTAGGTGCTGGGTGAGCTCTGAGGATGTATACCCCTGGTGGGAGAGGGAGACCTAGAGATCTGGCTGTGGGGCG
GGCATGGGGGTGAAGGGCCACTGGGACCCTCAGCCTTGTTTGTACTGTATGCCTTCAGCATTGCCTAGGAACAC
GAAGCACGATCAGTCCATCCCAGAGGGACCGGAGTTATGACAAGCTTTCCAAATATTTTGCTTTATCAGCCGATA
TCAACACTTGTATCTGGCCTCTGTGCCCCAGCAGTGCCCTTGTGCAATGTGAATGTGCGCGTCTCTGCTAAACCAC
CATTTTATTTGGTTTTTTGTTTTGTTTTGGTTTTGCTCGGATACTTGCCAAAATGAGACTCTCCGTGCGCAGCTGG
GGGAAGGGTCTGAGACTCCCTTTCCCTTTGTTTTGGGATTACTTTTGATCCTGGGGGACCAATGAGGTGAGGGG
GGTTCCTTTTGCCTCAGCTTTCCCCAGCCCTCCGGCCTGGGCTGCCACAAGGCTTGTCCCCCAGAGGCCCT
GGCTCCTGGTCGGGAAGGGAGGTGGCTCCCGCCAACGCATCACTGGGGCTGGGAGCAGGGAAGG

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FIGURE 5379

TTGAGGGTCAATTCCAACTCCTTCACTTTGGTTGTGTTAGTAGACAGGGCAACAAAGTGCTTCGCCACTGCAGA
AGGATCCTTGGCCGCCTGGAGAAACCACTCCTTCGCCGTCTCTGCATTTCGTGATGGTCTCCTGGGTAGTAAAGGT
CTTGGAGGCAATGATGAACAGGGAGGACTCGGGGTTTCAGCTGGGCCAGGGTTTTGGCAATGTGAGTTCCATCAAT
GTTGGAGACATACCAGACGCGGGGACCTCCTGAAGAGTATGGCTTAAGGGCTTCAGTCACCATGAGGGGTCCCAG
GTCGGAGCCGCCAATGCCAATGTTGATGACGTCCGTGATGGTCTTGCTGTGTACCCCTTCAGTCACCGCTCCG
GACACGCTGGCAGAAAGACTTCATCTTGTCCAGAACCTTGTTGACCTCTGGCATCACATCCTTGCCGTCTACCAG
GATGGGTGTGTTTGACCGGTTCCGCAGAGCCACGTGCAGCACGGCTCGACCCTCGGTGTAGTTGATCTTCTCACC
ATTGAACATCCGCTCCCGGGCGGCCTCCACGCCCCTGGACTTGGCCAAGTCCACCAGCATCCGCATCACGTCCTC
CGTCACCAGGTTCTTGGAGTAATCCACCAGGATATGCCCATGGTTGGTGTGAGGGTCAAGCTGAAGTGGTTGAA
GCGGTCCCTTGTGTCATCGAAGAGGCGGCGCAGGTTTCAGCTCGGAGCGGTGCTCGCGGTACCATTGCTGCAGCTT
CTGGAAGTGGGGGTCCCGGGTGAGAGCGGCCATGGCGGGACTAGAAGGTACACTGAGTGAGACGCGAGCCGAGGA
GGAAGGAGCGCCGGCAGCGCGCAGCA

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FIGURE 5380

ATGACAAAGAAAAGAAAGAACAACAATCATGCCAAAAAGGGCCGCGGCCACATGCAGCCTATTTGCTGCATGAAC
TGTGCCCCGATGCATGCCCAAGTACAAAGCCGTTAAGAAACTCCTGTATGTGAAACTACATTACTGTGTGAGTTGT
GCAATTCACAGCAAAGTAGTCAGGAATCGATCTCATGAAGCCCGCAAGGACCCAACACCCCCCTCCCCGATTTAGA
CCTGCGGCTAGTATCCTGACACCAAAATCCAACCACTCGAAGACACAGACAAAATGTTCCATGCAAGATATTGGC
AAAGTGAATGAAATTACATATAAAGAATACTATAAGCTGATTAAGGAGAATTTACACCAGAAACGCAAGCCACCA
CCACCCCCAGTGTCCCCAAGGCTGAAGGTGCAAGCTTGCCCTGGCCCTGGCCCTGGCATAGAAAGTGCACGATCT
GGTCATGTCATGCAGGTGAGGATACCTGTGTGCCAGGTCTCCAGCTCCCTGGTGACAAGACTGACAGACAAAAC
AATGGAACCTGGTACCTAGAAGAGGATGAGAAGGATCCCCGTGAACCCTAG

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FIGURE 5381

MTKKRKNNNHAKKGRGHMQPICCMNCARCMPIKYKAVKKLLYVKLHYCVSCAIHSKVVRNRSHEARKDPTPPPRFR
PAASILTPKSNHSKTQTKCSMQDIGKVNEITYKEYYKLIKENLHQKRKPPPPVSPRLKVQACPGPGPGIESARS
GHVMQVRIPVCQVSSSLVTRLTDKTNGTWYLEEDEKDPREP

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FIGURE 5382

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCTTTCAGCAGACTCAACTATCATGGACATTTCAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCCTGATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCCAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCGCCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGC

[illegible]

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FIGURE 5385

CTCTGACAAAAGCATCTCAGTGATTGACTTTTACTCGGGCGAGTGCATTGCCAAGATGTTTGGCCATT CAGAAAT
TATTACCAGCATGAAGTTCACCTATGACTGTGCATCACTTGATCACAGTATCTGGAGACAGCTGCGTGTT CATCTG
GCACCTGGGCCCCGAGATCACCAACTGCATGAAGCAGCACTTGCTGGAGATTGACCACCGGCAGCAGCAGCAGCA
CACAAATGACAAGAAGCGGAGTGGCCACCCCCAGGCAGGATACGTATGTGTCCACACCTAGTGAGATTCACTCCCT
GAGCCCTGGAGAGCAAACAGAGGATGATCTGGAGGAAGAGTGTGAGCCAGAAGAGATGCTGAAGACACCATCCAA
AGATAGCTTGGATCCAGATCCTCGTTGCCCTGCTAACCAACGGCAAGCTGCCACTGTGGGCAAAGCGGCTGCTAGG
GGACGATGATGTGGCAGATGGCTTGGCCTTCCACGCCAAGCGCAGCTACCAGCCCCACGGCCGCTGGGCAGAGCG
GGCCGGCCAAGAGCCCCCTCAAGACCATCCTGGATGCCCAGGACCTGGATTGCTACTTTACCCCCATGAAGCCCGA
GAGTCTGGAGAACTCCATTCTGGATTCACTGGAGCCACAGAGCCTGGCCAGCCTGCTGAGTGAGTCAGAGAGTCC
CCAGGAAGCTGGCCGCGGGCACCCCTCCTTCCCTGCCCCAGCAGAAGGAATCATCTGAGGCCAGTGAGCTCATCCT
CTACTCTCTGGAGGCAGAAGTGACAGTCACAGGGACAGACAGCCAGTATTGCAGGAAGGAGGTGGAGGCCGGGCC
TGGAGACCAGCAGGGCGACTCCTACCTCAGGGTGTCTCCGACAGCCCAAAGGACCAGAGCCCGCTGAGGACTC
GGGGGAGTCAGAGGCCGACCTGGAGTGCAGCTTCGCAGCCATCCACTCCCCAGCTCCGCTCCTGACCCTGCCCC
TCGGTTTGCCACGTCGCTGCCCCATTTCCCAGGATGCGCAGGTCCCACAGAAGATGAGCTGTCCCTGCCCCGAGGG
ACCCAGCGTCCCCAGCAGCTCCCTACCCAGACTCCGGAGCAGGAGAAGTTCTCCGCCACCACTTTGAGACACT
GACTGAGTCCCCCTGCAGAGCTCTGGGAGACGTGGAGGCCTCTGAAGCTGAAGACCACTTCTTCAACCCACGCCT
GAGTATCTCCACGCAGTTCCTCTCAAGCCTCCAGAAGGCATCCAGGTTACCCATACTTCCCTCCCCGGGCAAC
CCAGTGCCTTGTGAAGTCTCCAGAGGTCAAGCTCATGGACCGAGGCGGAAGCCAGCCCAGAGCAGGTACTGGCTA
CGCCTCCCCAGACAGGACCCACGTCCTCGCTGCAGGGAAGGCTGAAGAGACCCTGGAGGCCTGGCGCCCCACCACC
TCCCTGCCTTACGAGCCTGGCGTCCCTGTGTCCCTGCTTCCCTCCGTGCTGCCCACAGACAGGAATCTCCCAACGCC
CACATCTGCACCCACCCAGGCCCTGGCTCAGGGTGTCCATGCCCCCTCCACCTGTTCTTACATGGAGGCCACTGC
CAGCTCCCGTGCCAGGATATCACGCAGCATCTCCCTCGGTGACAGTGAGGGCCCTATCGTGGCCACACTGGCCCA
GCCCCCTCCGTAGGCCATCGTCCGTTGGGGAGCTGGCCTCCTTGGGCCAGGAGCTTCAGGCCATCACCACCGCGAC
AACACCCAGTTTGGACAGTGAGGGCCAAGAGCCTGCCCTGCGTTCTTGGGGCAACCACGAGGCCCGGGCCAACCT
GAGACTGACCCCTGTCAAGTGCCCTGTGATGGGCTCCTGCAGCCCCCGTGGATACCCAGCCTGGCGTCAACCGTCCC
TGCAGTGAGCTTCCCAGCCCCCTAGCCCTGTGGAAGAGAGCGCCCTGAGGCTCCACGGCTCTGCCTTTTCGCCCAAG
TCTCCCAGCTCCTGAGTCCCCCTGGCCTTCCCTGCCCCACCCAGTAACCCCCAGCTTCCAGAGGCCCGGCCTGGCAT
CCCTGGCGGCACTGCCTCCCTCCTGGAGCCCACCTCCGGTGCACCTTGGTCTGTTACAGGGCAGCCCTGCCCGCTG
GAGTGAGCCCTGGGTGCCGTTGAAGCCCTGCCCCATCTCCCTTGAGCTGAGCAGGGTGGGGAACATCTTGCA
CAGGCTGCAGACCACCTTCCAAGAAGCCCTCGACCTTTACCGTGTGTTGGTCTCCAGTGGCCAGGTGGACACCGG
GCAGCAGCAGGCACGGACTGAGCTGGTCTCCACCTTCCCTGTGGATCCACAGCCAGCTGGAGGCTGAATGCCTGGT
GGGGACTAGTGTGGCCCCAGCCAGGCTCTGCCAGCCAGGACCCCGTCCCCACCGACGCTGTACCCCTGGC
CAGCCCAGACCTGCAGGCCCTGCTGGAACACTACTCGGAGCTGCTGGTGCAGGCCGTGCGGAGGAAGGCACGGGG
GCACTGAAGGGCGCAGCCCTCCACCGCAGCCCTGCTGCTTCTGAGGACTTAGGTATTTAAGCGAATAAACTGAC
AGCTTTG

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FIGURE 5386

MKPESLENSILDSLEPQSLASLLSESESPQEAGRGHPSFLPQQKESSEASELILYSLEAEVTVTGTDSQYCRKEV
EAGPGDQQGDSYLRVSSDSPKDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELS
LPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEASEAEDHFFNPRLSISTQFLSSLQKASRFTHTFP
PRATQCLVKSPPEVKLMDRGGSQPRAGTGYASPDRTHTVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLPTRN
LPTPTSAPTTPGLAQGVHAPSTCSYMEATASSRARISRSISLGDSEGPVATLAQPLRRPSSVGEASLGQELQAI
TTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVPVAVSFAPSPVEESALRLHGSA
FRPSLPAPESPGLPAHPSNPQLPEARPGIPGGTASLLEPTSGALGLLQGSPARWSEPWVPVEALPPSPLELSRVG
NILHRLQTTTFQEALDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAECLVGTSVAPAQALPSFGPPSPPTL
YPLASPDQLALLEHYSELLVQAVRRKARGH

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FIGURE 5387

AAGAAGACTACAATCTCCGGAGGGAAACCTGGGGCGTCTCGCGCAAACGTCCATAACTGAAAGTAGCTAAGGCAC
CCCAGCCGGAGGAAGTGAGCTCTCCTGGGGCGTGGTTGTTTCGTGATCCTTGCACTCTGTTACTTAGGGTCAAGGCT
TGGGTCTTGCCCCGCAGACCCTTGGGACGACCCGGCCCCAGCGCAGCTATGAACCTGGAGCGAGTGTCCAATGAG
GAGAAATTGAACCTGTGCCGGAAGTACTACCTGGGGGGGTTTGCTTTCTGCTTTTCTCTGTTGGTCAACATC
TTCTGGTTCTTCCGAGAGGCCTTCCTTGTCAGCCTACACAGAACAGAGCCAAATCAAAGGCTATGTCTGGCGC
TCAGCTGTGGGCTTCCTCTTCTGGGTGATAGTGCTCACCTCCTGGATCACCATCTTCCAGATCTACCGGCCCCGC
TGGGGTGCCCTTGGGGACTACCTCTCCTTACCATACCCCCTGGGCACCCCTGACAACCTTCTGCACATACTGGGG
CCCTGCTTATTCTCCAGGACAGGCTCCTTAAAGCAGAGGAGCCTGTCTGGGAGCCCTTCTCAAACCTCCTAAG
ACTTGTTTTTCATGTCCACGTTCTCTGCTGACATCCCCAATAAAGGACCCTAACTTTCAAAAAAAAAAAAAA

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FIGURE 5388

MAKARNQLDAVLQCLLEKSHMDRERLDEEAGKTPSDTHNKDCSIAATGKRPSARFPHQRRKKRREMDDGLAEGGP
QRSNTYVIKLFDRSVDLAQFSENTPLYPICRAWMRNPSVRERECSPSSPLPFLPEDEEGSEVTNSKSRDVYKLP
PPTPPGPPGDACRSRIPSPLQPEMQGTPDDEPSEPEPSPSTLIYRNMQRWKRIQRWKEASHRNQLRYSESMKIL
REMYERQ

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FIGURE 5389

GGCACGAGGGGGGAGAGTAGACAGCAGAACCAGCGGCGGGCGGCTAAGCAGAGACTGTAGTAGCGGCGACAGCGAC
GACGGCAGCGATGGCTGGGGCGGGGCCAGCCCCGGGACTCCCGGGTGCAGGAGGACCCGTGGTCCCGGGTCCTGG
CGCTGGCATCCCGGGCAAAAGCGGCGAGGAACGCTTGAAGGAAATGGAGGCGGAGATGGCCCTGTTTGAGCAGGA
AGTTCTGGGGGCTCCAGTACCTGGAATCCCAACTGCTGTGCCTGCGGTGCCCCACTGTCCCCACGGTCCCCACAGT
AGAAGCGATGCAGGTCCCAGCGGCTCCTGTGATCCGCCCAATTATCGCGACCAACACATACCAGCAGGTCCAGCA
GACTCTGGAGGCCCGAGCAGCTGCTGCAGCCACAGTAGTTCTCCCATGGTGGGTGGCCCTCCTTTTGTAGGCC
TGTGGCTTTGGCCCTGGTGTATCGGAGTCACCTGGACAGCCCAGAGGCTCGAGAAGCCATGTTCTGCGGCGGGC
AGCTGTGGCCCCCAGAGGGCCCTATCCTGCGTCCAGCCTTCGTCCCCACGTGCTACAGAGAGCAGATTCCGC
TCTCTCCTCTGCAGCAGCCGGCCCCCGCCCTATGGCCCTACGGCCCCCTCACCAGGCCCTCGTGGGCCCCCTCT
GCCTGGGCCCCCTGGACCACCCATGATGCTGCCACCAATGGCTCGGGCTCCAGGGCCCCCGCTGGGCTCCATGGC
TGCACTGAGGCCCCCTCTGGAAGAGCCAGCAGCACCCCGAGAGCTGGGCTAGGCCTGGGGTTGGGCTGAAAGA
GAAGGAAGAGGCAGTGGTGGCGGCGGCGGCTGGGCTGGAGGAGGCTAGCGCGGCTGTGGCCGTGGGGGCAGGAGG
TGCCCCAGCTGGCCCTGCAGTCATTGGGCCCAGCCTGCCGCTGGCCCTGGCCATGCCATTGCCCGAGCCTGAGCC
CCTGCCCCCTCCCGTTGGAGGTGCTCCGCGGCTCCTGCCCCGCTGCGCATTCTGAACTCCTGTCCCTGCGTCC
TCGGCCCCGGCCCCCTCGGCCAGAGCCACCCCGAGGCTCATGGCTCTTGAGGTCCCAGAGCCCCCTGGGTGAAGA
CAAGAAGAAGGGGAAGCCAGAGAAATTGAAACGGTGCATTTCGCACAGCGGCAGGGAGCAGCTGGGAGGACCCAG
CCTGCTGGAGTGGGATGCAGATGACTTCCGGATCTTCTGTGGGGATCTGGGCAATGAGGTGAACGATGACATCTT
GGCACGCGCCTTCAGCCGCTTCCCATCCTTCTTAAGGCCAAGGTGATCCGTGACAAGCGCACAGGCAAGACCAA
GGGCTACGGCTTCGTACGCTTCAAGGACCCAGCGACTACGTGCGCGCCATGCGTGAGATGAATGGGAAGTATGT
GGGCTCGCGCCCCATCAAGCTTCGCAAGAGCATGTGGAAGGACCGGAATCTGGACGTGGTCCGCAAGAAGCAGAA
GGAAAAGAAGAAGCTGGGCCTGAGATAGGGTCTGTGGCCAGGCACCCGCTCCCACCTGGCCGGGCGCTGGCTCCT
CCCTCAGTTCTCTTTGAAAACCCCCAGCTGTCCACCCATCCCCTGCCCCAAAACCAGTTTCAATAAATTTACGT
TCATTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5390

MAGAGPAPGLPGAGGPVVP GPGAGIPGKS GEERLKEMEAEMALFEQEVLGAPVPGIPTAVPAVPTVPTVPTVEAM
QVPAAPVIRPIIATNTYQQVQQTLEA RAAAAATVVP PMVGPPFVG PVGFGPGDRSHLDSPEAREAMFLRRAVA
PQRAPILRPAFVPHVLQRADSALSSAAAGPRPMALRPPHQALVGPPLP GPPGPPMMLPPMARAPGPPLGSMAALR
PPLEEPAAPRELGLGLGLGLKEKEEAVVAAAAGLEEASA AVAVGAGGAPAGPAVIGPSLPLALAMPLPEPEPLPL
PLEVVRGLLPPLRIPELLSLRPRPRPPRPEPPPGLMALEVPEPLGEDKKKGKPEKLRKRCIRTAAGSSWEDPSLLE
WDADDFRIFCGDLGNEVNDDILARAFSRFPSFLKAKVIRDKRTGKTKGYGFVSFKDPSDYVRAMREMNGKYVGSR
PIKLRKSMWKDRNLDVVRKKQKEKKKLGLR

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FIGURE 5391A

CGGTGTCGCCGCCGCGGCGCTGTCATGGAGCTAGCGCAGGAAGCGCGGGAAC TGGGTGCTGGGCGGT CGAAGAG
ATGGGGGTGCCCGTGGCGGCCCGGGCCCCGGAATCGACGCTGCGCAGGCTGTGTCTGGGCCAGGGGGCTGACATC
TGGGCCTACATCTTGACAGCATGTGCACAGTCAGAGGACTGTCAAGAAGATCCGGGGAAACCTACTCTGGTATGGC
CACCAGGACAGTCCACAGGTCCGTGCGAAGTTAGAGCTGGAAGCTGCTGTGACCCGCTGCGGGCAGAAATCCAG
GAACTCGACCAGAGCCTGGAGCTGATGGAGCGAGACACTGAGGCTCAGGACACGGCCATGGAGCAGGCACGTGAG
CACACTCAAGACACCCAGCGTCGAGCTCTCCTCCTCCGGGCCCCAAGCTGGGGCCATGCGAAGACAGCAGCATAACG
CTCCGAGATCCCATGACAGCGGTGCGAATCAACTGAGGCGCCTGACAGGACATGGAGAGGAAAGCCAAAGTAGAT
GTGACCTTTGGATCCCTCACGTGCGCAGCTCTGGGCCTGGAGCCCGTGGTCTGCGTGATGTCCGAACAGCCTGC
ACCTTCCGGGCCCCAGTTCCTGCGAAGCTCCTGCTTCCCCAGGCCAAGAGGGGCAGCCTCCCAACCCCTCATGAT
GACCACTTTGGCACTTCGTACCAGCAGTGGCTGAGCTCAGTGGAGACGCTGCTGACAAACCACCCCCAGGCCAC
GTCTGGCTGCCTTGGAGCACCTGGCTGACAGAGCGGGAGGCAGAGATTCCGGTCCCTGTGACGTGGGGATGGGCTT
GGCGACACAGAGATATCCAGACCCAGGCCCGGACCAGTCAGACTCCAGCCAGACCCTGCCGTCCATGGTTTCAT
CTCATCCAGGAGGGCTGGCGGACTGTGGGTGTGCTGGTCTCCAGCGGAGCACCTCCTGAAGGAGCGGCAAGTC
TTGACCCAGCGCCTCCAGGGCCTGGTGGAGGAGGTGGAGAGACGCGTCTGGGATCCAGTGAGAGGCAGGTGCTG
ATACTGGGGCTTCGGCGCTGTTGCCTGTGGACGGAGCTCAAGGCCCTGCACGATCAGAGCCAGGAGCTGCAGGAT
GCAGCTGGGCATCGGCAGCTCCTGCTGAGGGAGCTACAGGCCAAACAGCAGCGGATCCTGCACTGGCGCCAGCTG
GTGGAGGAGACCCAGGAACAGGTCCGCCTGCTCATCAAGGGAAACTCGGCCAGCAAGACCCGCTGTGCCGGAGC
CCGGGGGAGGTGCTAGCTCTGGTCCAGCGAAAGGTGGTCCCTACATTTGAGGCAGTGGCACCACAGAGCCGGGAG
CTGCTGCGCTGTCTGGAGGAGGAAGTCCGGCATTGCCCCACATTCTGTTGGGCACGCTGCTGCGGCACAGGCCG
GGAGAGTTGAAGCCCTGCCACGGTCTCCTCCATCCATCCACCAGCTGCACCCCGCGTCCCCAAGGGGCTCCAGC
TTCATAGCGCTGAGCCACAAGCTGGGGCTGCCTCCAGGGAAGGCCTCGGAGCTGCTCCTGCCGGCGGCTGCCTCT
CTTCGCCAGGACCTTCTGCTCCTGCAGGACCAGCGGAGCCTCTGGTGTGGGATCTACTCCACATGAAGACCAGC
CTGCCGCCAGGCCTTCCCACCCAGGAGCTGCTGCAGATCCAGGCATCCCAGGAAAAACAGCAGAAAGAGAACCTG
GGGCAGGCTCTGAAGAGGCTGGAGAAGCTACTGAAACAGGCAGTGGAGCGAATCCCTGAGCTGCAGGGGATCGTG
GGGGACTGGTGGGAGCAGCCAGGCCAGGCCGCCCTCTCTGAGGAGCTCTGCCAGGGCCTGTCCCTGCCCCAGTGG
CGGCTGCGCTGGGTTGAGGCCAGGGGGCCCTGCGAAGCTGTGACGCTGAAGAGAGGGTTCAAACGGAAGCCGA
GAACTTGACACTGTTACCCCCAACACCTCACCTCCCCCAGGACATTTGGAAGAAAGCAGCGCCAGGATTCCTCGG
CAGTCGTCCCCACCCGCACCTGCAGTCCCTCATGTGCTGTTCTGCTGCCCCACTCAGCTCCTGGACCCTGTCTCT
TTCATCCCGCTAAAGCACCCCTTAAACCCCTTCATCACTTTTATTCTCAGCAAAAAGTAATTGAGCACCTCCTC
TAGGCGCTGGGGAGTCCACACTGAACAAAAGAAACAGAAAACCTGTCTTCCAGCAGTTGAGTTCTAGGGCAGGG
AGACAGAGTTTACAAGATAAGGAAAATATATATGTAGTATGCTGCAAGTTAACTGCTGTGTGGGAAATCCAGCAG
GGGGTGGGATGTGTGATTTGAATTGAGGGCCACACTGCCAGGTCGTGCTCCGTCAAGGGGTGAGCAGGAGCAAC
AGGGGTGGCTGAGTAAGGGCTTGCAGCTGGAGGCAACAGCACATGCAAAGGCCCTGAGCCAGGATGTGCTGCAAT
AAGGGCCACTGAGGGGGACAGTGTAGGTTGGGGGTGAGGAATGTATTAAGATGAGATTGCCTTCTAGTTTGTAT
TAGTTTCTTTTTTACATGTAAATCAGCCATTTGGAATTTATCCTAGCACATGGATCCAATTTTGTCTTATTTTA
CATATATCCTAGTAGCACTTACTGAAATTCAGTCAGAGTGGCAGTTGCCTCTGAGGGAAAGGTGGGTGGCAGGG
ATCAACTGAGGAGGAGACACAGAAATGTCCTAGCTGATGGGAATGTGCTGTGTCAAGAGCAGCGGCGGTGACGCA
GGTGTAGAGATTTGTCAGAGCTCATGTAGTTGTAGTCTTAAGGCCTGTGCATTTCACTGCGTGGGTACTCAATT
TATAAAGCAAAGCCCTTACACTTTTGAGATGCCACCTTTTTATGCACTAAATTTCCATGTTTAATTGGGTTATAT
CTGGCTTCTCTCCAGACCTGCTTTGTATTTAACTCTCCATGTGTCAATTCCTACAGTAGCTTAATAGAAAGGCTTG
TGACACATTGTCATATCTGTTCTTGTCTTTGTTTTTTTTTTTTTTTTTTTTTGGAGATGCAGTCTCATTTCTGT
TGCCCAAGTTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCCGCCTCCAGGTTCAAGCCATTCTCATG
CCTCAGCTTCCCCAGTAGCTAGGATTACAGGTACGCACCACCACGCCAGCTCATTTTTGTACTTTTAGTAGGGA
CGGGGTTTCATCATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCGGCTCCCAA
GTGCTGGGATTACAGGCATGAGCCACCGCGCCTGACCACATTGCCATATCTGAAATGGCTGGATTCTCTTAGGTG
CTTTTCTTTTTCTTTCTTTCTTTTCTTTTTTGGAGACAGAATCTGGCTGTTTCCAGGCTGAAGTGCAGTGGCATG
AACTCAGCTCACTGCAACCTCTGCCTCCTGGATTCAAACAATTCTCATGTCTCAGCCTCCTGAATAGCTGGGATT
ACAGGCACCCACCACCATATCTGGCTAATATTTGTATTTTTTGTAGAGTCGGAGCTTTACCATGTTGGTCAGGCT

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FIGURE 5391B

GCTCTCCAACCTCCTGGCCTCAAGTGATTCTATCGCCTCTGCCTCCCAAATCTTCACCTGCTGGGATTAGTTTCCC
CTGTCTCAGTAAATTTTTTTTTCCCAAACCTAAGTGAACATTAGATTTAATTTGGCTGGCCCCAGAAGAAAAACATG
CACAGATGGTAGTTTTTACTGGTGTTGCAGTAAGTTTTCAAATTTGGAAGTTTGGCAGCTTTATGATCTTGAACCT
TGCTGTCCATCTCTCACACAACCTCCTCTCTTGGCCTCCAGAGTCCCTTTACTCTCCAGCTTTCTCTCTGCCCT
GGCTGCTGTTTTCCAGCCTTTCCACATTGGCTTTCCCATGTAGTCCTTAGTGTGTCTGCTCCTCCTCTCTCTCCT
CATCACAGTTCCCAGCCCCACCTTCAACTGAACTCAACAAAATCTTCAACTTCATACAGTAGTCACATTGTTAG
TAATAACACTGGCATTTTTTATTTTGATAAAATAGACCGTTTAAATTTTTGAGATTCTACCTTATATTTTTTGAAT
TATATACTAAAGCAAATAAGTAGTGATGTAATGTCATTGGGGACCAAGATTTTGTGTAAATGAAAAAGATAA
CAAATATAAACTCAAGTAAACACCCTGTAGTCTTTCACATGAATTGGAAATATCAGAATAAAGTCATGATTTTTC
TCTTTCT

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FIGURE 5392

MELAQEARELGCWAVEEMGVPVAARAPESTLRRCLGQGADIWAYILQHVHSQRTVKKIRGNLLWYGHQDSPQVR
RKLELEAAVTRLRAEIQELDQSLELMERDTEAQDTAMEQARQHTQDTQRRALLLRAQAGAMRRQOHTLRDEMQRL
QNQLRRLQDMERKAKVDVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLLLPQAKRGSLETPHDDHFGTSYQ
QWLSSVETLLTNHPPGHVLAALAEHLAAERAEIRSLCSGDGLGDEISRPQAPDQSDSSQTLPSMVHLIQEGWRT
VGVLVSQRSTLLKERQVLTQRLQGLVEEVERRVLGSSERQVLILGLRRCCLWTELKALHDQSQELQDAAGHRQLL
LRELQAKQQRILHWRQLVEETQEQVRLLIKNSASKTRLCRSPGEVLALVQRKVPTFEAVAPQSRELLRCLEEE
VRHLPHILLGTLLRHRPGELKPLPTVLPSIHQLHPASPRGSSFIALSHKLGLPPGKASELLLPAAASLRQDLLLL
QDQRLWCWDLHMKTSLPFGLPTQELLQIQASQEKQKQENLGQALKRLEKLLKQALERIPELQGIVGDWWEQPG
QAALSEELCQGLSLPQWRLRWVQAQALQKLC

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FIGURE 5393

GGCACGAGGGCCCTGGCCGTGGCGAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCTCGCGATC
CCCGCGGGGCGGGACCGGGCGGCCGGCATCATGACCCTGTTTCACTTCGGGAACTGCTTCGCTCTTGCCCTACTT
CCCCTACTTCATCACCTACAAGTGCAGCGGCCTGTCCGAGTACAACGCCTTCTGGAATGCGTCCAGGCTGGAGT
CACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCCACCTGGGAAGGCGGCATCTA
TGACTTCATTGGGGAGTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCG
GAATGCCGGAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCG
CTGCATTCCCCTATGGGTCGGAGCCCCGGGGCATTGAGTTTGAAGTACATCCAGATGAGCATAGACTCCAA
CATCAGTCTGGTCCATTACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACCTT
CCGGCCAGCTGTCTCCTGCTGATGTTCCCTCAGTGTCTACAAGGCCTTTGTTATGGAGACCTTCGTCCACCTCTG
CTCGCTGGGCAGTTGGGCAGCTCTACTGGCCCCGAGCAGTGGTAACGGGGCTGCTGGCCCTCAGCACTTTGGCCCT
GTATGTCGCCGTGTCAATGTGCACTCCTAGGCTTGGTGTCTCAGACATTGATGTACCTTTTCCCTGCCTCGCTC
CAGGTTTtagTGAAGTAAACAGTATTTGGAAAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5394

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLVHYIVAS
AQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVNVHS

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FIGURE 5395

ATGGCCGTTGCCAGCTTGCCCTTCCGTGCTAGTCGCATCTCAGCAGGATCCCCTCCCAGATTTGGTCCTGGTGCTT
GATGGTCGAGGCCATCTCCTGGGCGCCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTG
GTCGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACAGAAACAAGTGCCCCTACCACTTCCGGGCCCC
AGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAAGCGAGGCCAGGCCGCTCTGGACCGT
CTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGGTGAGCTATGCCAAACCCACAGGCAGCGGCCTTAC
CTGTGGCGTCCATGA

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FIGURE 5396A

AAAAAATAGCCAGGCGTGGTGGCACATGCCTATAATCCCAGCTACTCAGGTGGCTGAGGCAGGAGAATCGCTTGA
ACCCAGGAGGCAGAGGCTGCAGTGAGCTGAGGTCACACCCTGCCTCCAGCCTGGGTGACAGAGTGAGACTCTG
TCTCAAAAAACAAACAAACAAAGCAAAAAATCAAAAAACATTGTTTCAGATCTTATTTTCCTATTGACCTAAGAGTTA
TTTAATATAGACTTTTGAATTTTCAGGTAGATTTTACTTGTGTTTCTTTTAATTTTATTATTAATTTCCAGTTTT
AGTAGAAAATGTCTATATAATTTCAACCTTTTTTTTTTGTCTAACTCCTAGTTTTGTGCTAGATTTTCAGCTTTTT
AATAGAGACCACCTTATCATAATTGAAAACCTCATCCTGTTTCTCTCTCATACACAACCTCATTTCAGCTTGTAGAT
TTTTCTCTGGCTGTTCTGTTGCTGGCTTGCCTCCTCTGGCCTACATGTAACGTGACTTCTGTTAGCAAGTCCT
TCACATTTCAGATGACTGCAACAGTTGAACATGCACATTACTTTTTTCCACATTTCTGAGTTACAGGCATATCCTG
TCTTTTTGTGCCATGAATTTTATAAGAACTTCAGTAAGATATAGACGTGTTTTCTGTCCGAAAAATCACTGATA
CACATTTCTTAAAAAACAGGAATGGCCTTGACTATGAGGGAATGGAAGGAGAAAACTGAGCAATGGGAGGAA
AGAACAAAACAGTTGAACATTTGTCAAATGAATGAGTAATAGAATAAGTTGAAGGGAAGATTGAGTAGGTAGAA
CTCCTCAATACCTTTGCTATGGTGTAGAGACAAAGAAAAAGTTACCCATAGCTATGTGAAGGGGCAATGGGCAG
TGCCTGCATAGGTAAAGGCATAAGCAGTGGCAGATGCATAGGAATATACAGCCACCTATTTCCATTCTTGTATT
TAGCTGGGCTGCCCTGGATGAATAAAGAGAATATTTAATCACTGTAGTAAGGCATGAGAGACTAGAGGCAGAGAG
ATACATTTAGAACAAGTATGTAGCTATGGGAATTAATGAGTAAACCTATTATATGCTTAGCATTATTACTTA
ATGTAGCGTTAACTAGGGATTGTTTCTGCTTGGAGAGGTTTATAGGTAAGAATAGGCAGTATAACAATTGGAG
AAGTTAATAAATATATAATTTTTAAATTGAGAGCTATTATAAAGGCAAGGAATAGAGAATAGCAACATGGATTTA
GGTACTATCAATAGGGTCAACCTTAAAGGAAATGACTTTTAACTAAGATCTCAAGATGAAAGGAGCCAGCCATG
CAAAGAGCCCAATCAGGAGATTGTGGGAGATAGAACAGACTGTGAAGAGTCCTAAGAGATGGAAGTAAGTTAGG
ACATGTGAGGTCTGCAAGGAGGCCTCTCCAGGGAGCAGTAAAGGGGACACTGGTTTGAGATCATATGATGTAGGT
AAGCAGAGGCCTTCTTAACCACAGTGAGCTTGACTGGATTCTGAGAATGAAGAAAGATGAAAAAAATTTAAGTAT
AGATTCTCGACCTCTCATCTTCATCAGAATTATCATGTAGAGAATATTAAATATCCTTCCAGGACTGCAGAGTCT
GATCCAGGTGGTTTGGGTGGTGTCTAAACCTCAGTGTAGTAACAAGCTATGTGGTGATTCTGATCCACACCTCA
ATATGAGAACCCTGACTTAAAAATGTTTACTTCATCACCATCTTGCTATTTTGTATGAACTCTCATTTTTCTG
ATGTTCCCTTTGGCTTTTTTTTTCTTTCCAAATGTATAACAATATTTTAGAGTTTTGGTTAAGGATTACTTTTTG
TTGTCTTTTATTTCTACATTAGAAATGTTGCTTCTTTTAGTAAAAGAAAACAGCATGTGTTGCTTCTTGTGTTTT
ATTTTAGATTTGGAGACCAAGTATGAGACCAAGAAGTTATCTTTAGAAAATGACATTTATGAAATAAATTTATCC
CAGTGGAAGATAATGGAAGAATTGAAAACCATGGCCTTAAGGGTCTCATTTTAAAAAATGATTGGGAATCCACA
GGAATAATTGAAGGACAGGAGAGACCTCAAGAAGGATACTTCAGTAGTGTGAAAATGCCATCTGAAAAGGTGTCC
TCTTACCAGAAACGCACATCTGTTACTCCACATCAGAGACTTCATTTTGTGATAAACCTATGAATGTAAGGAA
TGTAAGGAATGTGGGATGGCCTTCAGACAGACTGCACACCTTACTCGACATCAGAGACTTCATTCTGGTGAAAAA
CTCTATGAATGTAAGGAATGTGGGAAGCTTTCATATGTGGTGCAGATCTTAGAGTACATCAGAAAATGCATATT
GGTGAGAAGCCCTATGAATGTAAAGAATGTGGGAAGGCTTTTAGGGTACGAGGACAACCTACTCTGCATCAGAGG
ATTCATACTGGTGAGAAACCTATGTGTGTAAAGAGTGTGGAAAAGCCTTTAGACAGTACGCACACCTGACTCGG
CATCAGAAGCTTAATAGTGCTGACAGGCTCTATGAATGCAAGAATGTGGGAAGGCCTTTTTGTGTGGCTCTGGT
CTTAGAGTACATCAGAACTTCATACTGGTGAGAAACCTATGAATGTAAGGAATGCGGGAAGGCCTTTAGAGTG
CGACAACAATAACACTCCATCAGAGAATTCATACTGGTGAGAAACCTATGAATGTAAGGAATGTGGAAAAGACC
TTTAGCCGTGGTTATCATCTTATTCTCCATCAGAAATTCATACTGGTGAAAAACCTTACGAATGTAAGGAATGC
TGGAAGCCTTTAGTCGCTACTCAGAACTTATTTACATCAGAGTATTCATATTGGTGTAAAGCCCTATGACTGT
AAGGAATGCGGGAAGGCCTTCAGACTACTTTTCAACTCACACAGCATCAGAGTATTCATATTGGTGAGAAACCT
TATAAATGTAAGGAATGTGGCAAGGCCTTTAGATTGCGCAAAAACCTTACTCTACATCAGAGCATTCTACTGGC
GAAAAACCTTTGAGTGTAAGGAATGTAGGAAGGCCTTTAGACTTAATTCATCCCTTATTCAACATCTGAGAATT
CATTCTGGTGAGAAACCTATGAATGTAAGGAATGTAAGAAGGCCTTTAGGCAACATTACACCTTACTCATCAT
CTGAAAATTCATAATGTAAAAATCTAAGAAAGTCTTTTCAACTTCTGTGTTATAGAACATTCTATGAATGTAGTA
ATTAATCTATTTTGTCTCATACATGCAACTGCGTTGGCATTAGAGGTTTTATACCATTAAAGAGTGTGACAATG
TATTGTAGTCCATCATCACTCAAACCTGAACTTCAGCATATTTGTTCTAAAACTAATCCTGTTATAAGAATGA
AAAAGACATTTACCGTCATCCCTATCCCATCACTTGTGTCTACTGGACAAGACGCTTAAGTCTCTGTGCTAT

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FIGURE 5396B

AATTTTTTAATTTATGACATGGTCATATAAGAGTGCAGCAGTTTGACACACTTTCAATCAAGAGGTGGAATCTAC
ATCCCTCTGTTGTATACAGGAATCTACATCCCTCTGTGACTGCTTCGCCCAGTAGAATATGGTAGACGTACTGCT
GTGCTGGTTTCTTGACTCAGACTTTACTGGTAGGGTTACTTCATCTCATGAAATGACAGAACTGTCTTGTTACAA
AGTCTGGCTACTTTGCTGAAGAGACCACATGAAGAGGCCCTGAAACTACGTAGAGAGGGGAGAGGCACCTGCTGAA
CCCTGTCTTCTTGACATCCACCAAGATACCAGACATTTGAGTGAAATTTTGGATCCACCAGACCAGCCACCAGCT
AAATGCCAGTGAGCGACTTGGTAACCTGAACTGATGCCATGTAGAATGGAAGAATTGACCAGCTGAGCCCTGGC
CCAAATTTCTGACCCACAAAACATGAGATATAATAAAATGGTTGTTGTTTAAAGCCACTAACTTTCTTTTATT
ATCATACTAAATATTTATTTTACATAATTCATACTAAAGGCTGTGGGCATAATGAGTATAGAAATGCCTTCCAC
CAACATTTAATCTTCATTGAACTTGAGATATCTTATTCTCGTTAAAATATTGAAAGTAAGGAATTCCTTTCCAGT
TTGTTTATTAAAAACAGATACCCTAGACCAGGTGAGGTGGCCCATGCCTGTAAATCCAGCACTTTGGGAGGCCA
AGTAAGGACGATTGCTTGAGGCCAGAAGTTCGAGACCAGCCTGGGCAACATGGTGAGACCCTGTCTCTACCAAAA
AACTTTAAAAATTAGCTGGGCATAATGGTGATGCCTGTAGTCTAGCTACTCGAGGCTGAGGTGGGAGGATCAT
TTGAACCCAAAGAGTTGAGGCTTCAGTGAGCTGTGATTGTACCACTGCACTCCAGCTTGAGTGACTGCAAGACCCT
GTCTCAAAAAAAAAAAAAAACTACAATCAGTATTCTCTGGCCCCAGTCAATATTAAAAATTGACAAAGGATAACA
TGAAACTTTGGAAATTAAGTCACCTGTATTATGAAGCCCCATTAATTTTTTAACTACTTCATTGTTTTTTAA
AAATGCTAAATTGTCAATTTAGCATTTTGAGGCAATCCCTCAAATTGGCTCCTGTGTCTTTTATCATGACCAC
TCCAACCTTTGAGCTTTTTTTTTTCTGTAACCAAATGCATTGATTAGTTATGGAGCATACTAGAGCATTATTAAC
AAATAAAGGAAAAGAATGGAATATTTACCTTGCTATCCTTTACAACTATATTTCAAGACAACCAAAAGTTGGT
GAAGGAAAGTTGTTGATTAGAGAATTCCAACCTGGTTAAAGGTCAAAGGAGGCCAGGCGCGGTGGCTCAAGCCTG
TAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGTGAGGTCAGGAGATCAAGACCATCCTGGCTAACACGG
TGAAACCCCATCTCTACTAAAAATACAAAAAATTCGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCA
GGAGGCTGAGGCAGGAGAATGGCTTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACTC
CAGCCTGGGTGACAGACCGAGACTCTGTCTCAACAAAAAACAAAAACAAAAACAAAGATCAAATGAATG
ATAGAATTTGAAAACCTACGCTCTTTAATTTTACAAAATCATGGATTTTTCGTGGTGATAGCAATGGATGCGAAGAC
CATTAGGTGAAAAATGGATAGGAAGCTTATAATGCATGGAGCAGAATGACAGGACACTAATCTATATTAACATCT
CTAAATGAGATCAGCCAGATGAACTTGATGTGATGAAATGGATACACACAGTGGACACCTGTGAAGTTTTCTTGG
CTCCCCCAAACTGAGAAGTACAAGTTAGTCTCCAAACCTAATTACCAGTTTACAGGAAACATGGGGAATAAAG
AACAAATTAACAACACAAAAGAAGCAAACAACCAAATGCACAATTTGGGAAATTCTGCAGAAGTAATGGCCTAGTT
TTTTAACCAATACATGTC

5854/6881
FIGURE 5397

MLLLLVKENS MCLLS CFILDL ETKYETKKLSLENDIYEINLSQWKIMERIENHGLKGLILKNDWESTGKIEGQER
PQEGYFSSVKMPSEKVSSYQKRTSVTPHQRLHFVDKPYECKECGKA FRVRQQLTFHHRIHTGEKPYECKECGMAF
RQTAHLTRHQRLHSGEKLYECKECGEAFICGADLRVHQMHIGE KPYECKECGKA FRVRGQLTLHQRIHTGEKPY
VCKECKKA FRQY AHLTRHQKLNSADRLYECKECKGAFLCGSGLRVH HKLHTGEKPYECKECKGA FRVRQQLTLHQ
RIHTGEKPYECKECKGKTFSRGYHLILHHRIHTGEKPYECKECKWKA FSRYSQLISHQSIHIGVKPYDCKECKKA FR
LLSQLTQHQS IHI GEKPYKCKECKKA FR LRQKLT LHQS IHTGEKPFECKECKRKA FR LNSSLIQHLRIHSGEKPYE
CKECKKA FRQHSHLTHHLKIHN VKI

5855/6881
FIGURE 5398

TGGATGGTGAACCCTGATTCTGAAGTCGGTGTCTGCTGTGTTTCATGGCAGGATTCGGTTAGGAGGAACAGCACAG
CATGCTGGGCTCTGGATTTAAAGCTGAGCACTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTGAACCTATT
GGAGGAAAAAAAAAAAAAAAAACAGAACTGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAA
GATGAACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACTTCGTGGAGGCCATGGAGATCCTGGAG
CTGTACTGTGATCTGCTGCTGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAA
TCTGTGTCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAAATAGTTGCTGATCAG
CTCTGTGCCAAGTATAGCAAGTAATATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGTGAATGACAGTTTA
AGGCCTCGCTTAGTTGTACTGGATTCTCAGGGAGTCCTCTGTGGCCTTTTGCTCTGAGTGCTGTTTCCCTTGTAC
CAGAGGGCAGCACCATGGAAATTCTGTTTTTTCCTGTAGCATATTGT

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FIGURE 5399

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCTCCTCTGCAGCAGGAGGCAGAGCTG
TGGGATGAATCAGGTTTCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA
GCCTCGAAGCGGAGGATCCCTGTGTCCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTTCAG
CCCAGAGCCGGGGCTATGGGGCCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCCACGCCCCATG
CAGCCTTCCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCACCAAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG
TGGGCAGAAAGCTGGGCCTGCTGTTCTTCCCTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTCATCACCTACGTTTTGG
TGGCTGGTCTTGCGCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG
CCTGGCTGACCCTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGGTCTCATGGGCCTGCTCTTCGGGA
AGATTGGCTACTACCTGGTGTGGGCTGGTGTGCGTAGCCATCTTTGTGTTTCATGATCCGGACGCTGCGGCTGA
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCCGGAACCAGCTGCGCATGTACCTGACCA
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGCGGTGCAGCGCGCCGCTGA
ACCTCCCGCTGCTGCTGCTGCTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCCAAGGT
CCACCCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCCAGCCCCGCCCCCAACCAAGGTGCTGAGA
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCTGATGGGCATGG

5857/6881
FIGURE 5400

MRFARSPLPILGPQLLLTLFFPCSLEAEDPCVPAGHGDPHQLFDDTSSAQSRGYGAQRAPGGLSYPAASPTPHA
LADPVSNMAMAYGSSSLAAQGKELVDKNIDRFIPITKLKYYFAVDTMVGRKLGLLFFPYLHQDWEVQYQQDTPVA
PRFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFSPDLLGLQASSALAWLTLEVLAILLSLYLVTNTDLTTIDL
VAFLGYKYVGMIGGVLMGLLFGKIGYYLVLGWCCVAIFVFMIRTLRLKILADAAAEGVPVRGARNQLRMYLTMAV
AAQPMMLMYWLTFLVR

5858/6881
FIGURE 5401

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTGCGACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCCG
TGACATACTGGAGATCGGGGCCCCAATGGAGCATCCTACGCAAGGACATCCCCCTCCTTCGAGCGCTACATGGCCCCA
GCTCAAATGCTACTACTTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTTCCTGCTGTCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAACTACTACAGTTTTGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCGGCA
GCTGGAGATGATCGTCTTGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCCAATAAAGGTGGACTGAC

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FIGURE 5402

MYEQLKGEWNRKSPNLSKCGEELGRLKLVLLLELNFLPTTGTKLTKQQLILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFDFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGSYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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FIGURE 5403A

TCTACCTCGCGGGTGCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCCCAGCCCTCCCGCCCAGCCCG
CAGCCCCCTCCCTCTGTTCCCCGACCTCAGACCCTGGGCTTCCGACCTCGACATCATGGGTGACGCAGAAGGCGA
AGACGAGGTCCAGTTCCTGCGGACGGACGATGAGGTGGTCTGTCAGTGCAGCGCTACCGTGCTCAAGGAGCAGCT
CAAGCTCTGCCTGGCCGCCGAGGGCTTCGGCAACCGCTGTGCTTCCTGGAGCCCACTAGCAACGCGCAGAATGT
GCCCCCGATCTGGCCATCTGTTGCTTCGTCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGCTGGC
TAACACGGTGGAGGCTGGCGTGGAGTCATCCCAGGGCGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT
GCTCCGGCATGCACACAGCCGCATGTATCTGAGCTGCCTCACCACCTCCCGCTCCATGACTGACAAGCTGGCCTT
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGCTGGTGGACCATGCACCCAGCCTCCAAGCAGAGGTC
TGAAGGAGAAAAGGTCCGCGTTGGGGATGACATCATCTTGTCAGTGTCTCCTCCGAGCGCTACCTGCACCTGTC
GACCGCCAGTGGGGAGCTCCAGGTTGACGCTTCCTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG
CTGCGAAGAGGGCTTCGTGACGGGAGGTACGTCCTCCGCCTCTTTTCATGGACATATGGATGAGTGTCTGACCAT
TTCCCCTGCTGACAGTGATGACCAGCGCAGACTTGCTCTACTATGAGGGGGAGCTGTGTGCACTCATGCCCGCTC
CCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCG
GCATGTCACTACCGGGCAGTACCTAGCGCTCACCAGGACCAGGGCCTGGTGGTGGTTGACGCCAGCAAGGCTCA
CACCAAGGCTACCTCCTTCTGCTTCGCGATCTCCAAGGAGAAGCTGGATGTGGCCCCCAAGCGGGATGTGGAGGG
CATGGGCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGCAGCATGTGGCCTCAGGACTGTGGCTCAC
CTATGCTGCTCCAGACCCCAAGGCCCTGCGGCTCGGCGTGCTCAAGAAGAAGGCCATGCTGCACCAGGAGGGCCA
CATGGACGACGCACTGTGCTGACCCGCTGCCAGCAGGAGGAGTCCAGGCCGCCGCATGATCCACAGCACCAA
TGGCCTATACAACAGTTTCATCAAGAGCCTGGACAGCTTCAGCGGGAAGCCACGGGGCTCGGGGCCACCCGCTGG
CACGGCGCTGCCCATCGAGGGCGTTATCCTGAGCCTGCAGGACCTCATCATCTACTTCGAGCCTCCCTCCGAGGA
CTTGACGACGAGGAGAAGCAGAGCAAGCTGCGAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGGAGGGGAT
GCTCTCCATGGTCTGAATTGCATAGACCGCTAAATGTCTACACCACTGCTGCCCACCTTTGCTGAGTTTGCAGG
GGAGGAGGCAGCCGAGTCTTGAAAGAGATTGTGAATCTTCTCTATGAACTCCTAGCTTCTCTAATCCGTGGCAA
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGACTGGCTGGTCAGCAAGCTGGATCGGCTGGAGGCTCGTC
TGGCATCCTGGAGGTCTGTACTGTGCTCCTATTGAGAGTCCAGAGGTTCTGAACATCATCCAGGAGAATCACAT
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCTGGACGTGCTATGCTCCCTGTGTGT
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACTTGCTGCCTGGCCGTGAGCTTCTGCT
GCAGACAAACCTCATCAACTATGTACCAGCATCCGCCCCAACATCTTTGTGGGCCGAGCGGAAGGCACCACGCA
GTACAGCAAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGCG
GGTGGGCTGGGGCCCTACCGAGGGCTACACCCCTACCCTGGGGCCGGCGAGGGCTGGGGCGGCAACGGGGTTCGG
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACAGTGGCACGCCCAGTGACTTCCCC
AGGGCAGCACCTCCTGGCCCCCTGAAGACGTGATCAGCTGCTGCCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG
CATCAACGGCTGCCCCGTGCAGGGTGTCTTTGAGTCCTTCAACCTGGACGGGCTCTTCTTCCCTGTTGTGAGCTT
CTCGGCTGGTGTCAAGGTGCGGTTCTCCTTGGTGGCCGCGCATGGTGAATTCAAGTTCCTGCCCCACCTGGGCTA
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCCATCAAGGAGTATCGACGGGAGGG
GCCCCGGGGGCTCACCTGGTGGGCCCCAGTCGCTGCCTCTCACACACCGACTTCGTGCCCTGCCCTGTGGACAC
TGTCAGATTGTCTGCCGCCCATCTGGAGCGCATTGGGAGAAAGCTGGCGGAGAACATCCACGAGCTCTGGGC
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCGGTTTCGGGATGACAACAAGAGGCTGCACCCGTGTCTTGT
GGACTTCCACAGCCTTCAGAGCCTGAGAGGAATAACAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT
GGCTCTGGGCTGCCACGTGGGCATGGCGGATGAGAAGGCGGAGGACAACCTGAAGAAGACAAAACCTCCCCAAGAC
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCACGTGCGGCTGACGCCGGCGCAGACGAC
ACTGGTGGACCGTCTGGCAGAAAATGGGCACAACGTGTGGGCCCGAGACCGCGTGGGCCAGGGCTGGAGCTACAG
CGCAGTGCAGGACATCCCAGCGCGCCGAAACCTCGGCTGGTGCCCTACCGCCTGCTGGATGAAGCCACCAAGCG
CAGCAACCGGGACAGCCTCTGCCAGGCCGTGCGCACCTCCTGGGCTACGGCTACAACATCGAGCCTCCTGACCA
GGAGCCCAGTCAGGTGGAGAACCAGTCTCGTTGTGACCGGGTGCATCTTCCGGGCAGAGAAATCCTATACAGT
GCAGAGCGGGCCGCTGGTACTTCGAGTTTGAAGCAGTACCACAGGCGAGATGCGCGTGGGCTGGGGCAGGCCCGA
GCTGAGGCTGATGTAGAGCTGGGAGCTGACGAGCTGGCCTATGTCTTCAATGGGCACCGCGGCCAGCGCTGGCA
CTTGGGCAGTGAACATTTGGGCGCCCCCTGGCAGCCGGGCGATGTGCTTGGCTGTATGATCGACCTCACAGAGAA

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FIGURE 5403B

CACCATTATCTTCACCCTCAATGGCGAGGTCCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA
GATTGGGGACGGCTTCCTGCCCCGTCTGCAGCTTGGGACCTGGCCAGGTGGGTTCATCTGAACCTGGGCCAGGACGT
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCTCCAGGAAGGCTTCGAGCCATTTGCCATCAACATGCAGCGCCC
AGTCAACCACCTGGTTCAGCAAAGGCCTGCCCCAGTTTGAGCCAGTGCCCCCTTGAACACCCTCACTATGAGGTATC
CCGAGTGGACGGCACTGTGGACACGCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCCAGAACAGCCT
GGTGGAGATGCTTTTCCCTGCGGCTGAGCCTCCAGTCCAGTTCACCAGCACTTCCGCTGCACTGCAGGGGCCAC
CCCCGTGGCACCTCCTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCCGGCGCGGAACCCGACCCTGACTACGA
AAACCTGCGCCGCTCAGCTGGGGGCTGGAGCGAGGCAGAGAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC
CGGGGGCACCCCGCAGGCGGGGGGAGAGGCGCAGCCGCCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA
GAACAAGAAGAGAGGCTTCTTATTCAAGGCAAGAAGGTGCGCATGATGACCCAGCCACCGGCCACCCCCACGCT
GCCCCGACTCCCTCAGCAGTGGTGCCTGCAGACAACCGCGATGACCCGAGATCATCCTCAACACCACCACGTA
CTATTACTCCGTGAGGGTCTTTGCTGGACAGGAGCCAGCTGCGTGTGGGCGGGCTGGGTACCCCTGACTACCA
TCAGCACGACATGAGCTTCGACCTCAGCAAGGTCCGGGTGCTGACGGTGACCATGGGGGATGAACAAGGCAACGT
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGGCGGAGACTTTGTGAGTCCGGGCGAGCAGGGCCG
GATCAGCCACACGGACCTTGTATTGGGTGCCTGGTGGACTTGGCCACTGGCTTAATGACCTTTACAGCCAATGG
CAAAGAGAGCAACACCTTTTTCCAGGTGGAACCCAACACTAAGCTATTTCCCTGCCGTCTTCGTCTGCCACCCA
CCAGAACGTCATCCAGTTTGAGCTGGGGAAGCAGAAGAATCATGCCGTTGTCAGCCGCCATGTTCCAAAGCGA
GCGCAAGAACCCGGCCCCGAGTGCCACCGCGGCTGGAGATGCAGATGCTGATGCCAGTGTCTGGAGCCGCAT
GCCCAACCACTTCTGCAGGTGGAGACGAGGCGTGCCGCGGAGCGGCTGGGCTGGGCGGTGCAGTGCCAGGAGCC
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACCGGTGCATGGACATCCTGGAGCTGTGCGAGCGCCTGGA
CCTGCAGCGCTTCCACTCGCACACCCTGCGCCTCTACCGCGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA
CGCTCTGTGCAGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCCACTGCG
CGCAGGCTACTATGACCTCCTCATCAGCATCCACCTCGAAAGTGCCCTGCCGCAGCCGCCGCTCCATGCTCTCTGA
ATACATCGTGCCCTCAGCCTGAGACCCGCGCCATCACGCTCTTCCCTCCTGGAAGGAGCACAGAAAATGGTCA
CCCCCGCATGGCCTGCCGGGAGTTGGAGTCAACACTTCGCTGAGGCCCCCGCATCATTTCTCGCCCCCTGTTT
CGTGGCCGCTCTGCCAGCTGCTGGGGCAGCAGAGGCCCCGGCCCCGCTCAGCCCTGCCATCCCGCTGGAGGCCCT
GCGGGACAAGGCACTGAGGATGCTGGGGGAGGCGGTGCGCGACGGTGCGGACGCTCGCGACCCCGCTCGGGG
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCCTGCTGGTGATGGGCATCTTTGGCGATGA
GGATGTGAAACAGATCTTGAAGATGATTGAGCCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA
AGAGGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAAACAGCACAGGAAAAGGAAGATGAGGA
AAAAGAGGAAGAGGAGGAGCAGCAGAAGGGGAGAAAGAAGAAGGCTTGAGGAAGGGCTGCTCCAGATGAAGTTGCC
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACCAGCGGAGCCGCTATGGCCTCCTCATAAA
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTCCGCTCCCCACCCAGGAACAGATCAA
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTCGACAGGATTTGCT
TGACTTTTCATCAAGACCTGCTGGCACACTGTGGAATTCAGCTAGATGGAGAGGAGGAGGAACCAGAGGAAGAGAC
CACCTGGGCAGCCGCTCATGAGCCTGTTGGAGAAAGTGCGGCTGGTGAAGAAGAAGGAAGAGAAACCTGAGGA
GGAGCGTTCAGCAGAGGAGAGCAAACCCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGCCTGGGCCCA
AGAGGACTTCGTGCAGAGCCCCGAGCTGGTGGGGCCATGTTAGCCTCCTGCACCGGCAGTACGACGGGCTGGG
TGAGCTGCTGCGTGCCCTGCCGCGGGCGTACACCATCTCACCGTCTCCGTGGAAGACACCATGAGCCTGCTCGA
GTGCCCTCGGCCAGATCCGCTCGCTGCTCATCGTGAGATGGGCCCCCAGGAGGAGAAACCTCATGATCCAGAGCAT
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCACGAGACGGT
CATGGAGGTATGGTCAACGTCCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCCAAGATGGTGACAAGCTG
CTGCCGCTTCTCTGCTATTTCTGCCGAATCAGCCGGCAGAACACGCGCTCCATGTTTGACCACCTGAGCTACCT
GCTGGAGAACAGTGGCATCGGCCTGGGCATGCAGGGCTCCACGCCCTGGACGTGGCTGCTGCCTCCGTATTGA
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGGTTGTGTCTTACCTGGCAGGCTGTGGCCT
CCAGAGCTGCCCCATGCTTGTGGCCAAAGGGTACCCAGACATTGGCTGGAACCCCTGTGGTGGAGAGCGCTACCT
GGACTTCTGCGCTTTGCTGTCTTCGTCAACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGC GGCTGTCT

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FIGURE 5403C

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA
GGCCATCCGCATCTCCGAGGACCCTGCGAGGGATGGCCAGGCATCCGCAGGGACCGGCGGCGGAGCAGCTTTGG
TGAGGAACCGCCTGAAGAAAACCGGGTGCACCTGGGACACGCCATCATGTCTTCTATGCCGCCCTTGATCGACCT
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT
CCGCTCCCTTGTGCCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATTCACACCCTGGGCAAAGA
TGGGGCTCTGGTGCAGCCAAAAGATGTCAGCATCCTTCGTGCCGGACCACAAGGCGTCCATGGTGCTCTTCTCGGA
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGCTGCACGTGCTGGACGTGGGGTTTCTGCCCGACATGAGGGC
AGCCGCTCGCTGGACACGGCCACTTTCAGCACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCTGGC
CGTGCTGCCGCTCATCACCAAGTGTGCGCCGCTCTTTGCGGGCACAGAACACCGCGCCATCATGGTGGACTCTAT
GCTGCATACCGTGTACCGCCTGTCTCGGGGTGCTTCGCTCACCAAGGCGCAGCGTGACGTATCGAGGACTGCCT
CATGTGCTCTGTCAGGTACATCCGCCCCTGATGCTGCAGCACCTGTTGCGCCGCTGGTGTTCGACGTGCCCAT
CCTCAACGAGTTCGCCAAGATGCCACTCAAGCTCCTCACCAACCACTATGAGCGCTGTTGGAAGTACTACTGCCT
ACCCACGGGCTGGGCCAAGTTCGGGGTCACCTCAGAGGAGGAGCTGCACCTCACACGGAAGTCTTCTGGGGCAT
CTTTGACTCTCTGGCCCCATAAGAAATACGACCCGGAGCTGTACCGCATGGCCATGCCTTGTCTGTGCGCCATTGC
CGGGGCTCTGCCCCCGACTATGTGGATGCCTCATACTCATCTAAGGCAGAGAAAAAGGCCACAGTGGATGCTGA
AGGCAACTTTGATCCCCGGCTGTGGAGACCCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA
GTTTGCGGAGTACACACAGAGAAGTGGGCCTTCGACAAGATCCAGAACAAGTGGTCTATGGAGAGAACATAGA
CGAGGAGCTGAAGACCCACCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTTACCGCTG
GCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCTGGGAATGGACGATAGAGAAGGCCAGGGAGGGTGAGGAGGA
GAAGACGGAAGAAAAAAGCGCGAAGATATCACAAGTGCCAGACCTATGATCCTCGAGAAGGCTACAACCC
TCAGCCCCCGACCTTAGTGCTGTTACCCTGTCCCGGAGCTGCAGGCCATGGCAGAACAACTGGCAGAAAAATTA
CCACAACACGTGGGGACGGAAGAAGCAGGAGCTGGAAGCCAAAGGCGGTGGGACCCACCCCTGCTGGTCCC
CTACGACACGCTCACGGCCAAGGAGAAGGCACGAGATCGAGAGAAGGCCAGGAGCTACTGAAATTCCTGCAGAT
GAATGGCTACGCGTTACAAGAGGCCTTAAGGACATGGAAGTGGACTCGTCTTCCATTGAAAAGCGGTTTGCCTT
TGGCTTCTGTCAGCAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTTATTGCCACCTGGAGGCTGTGGTCTAG
CAGTGGGCGAGTGGAAGTCCCCACATGAACAGGAGATTAAATTTCTTGCCAAGATCCTGCTCCCTTTGATCAA
CCAGTACTTCACCAACCACTGCCTCTATTCTTGTCCACTCCGGCTAAAGTGCTGGGCAGCGGTGGCCACGCCTC
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAAACCTTGCTGCTCTCGTCCGCCACCGAGTCTCTCTCTT
TGGGACAGACGCCCCAGCTGTGGTCAACTGTCTTCACATCCTGGCCCGCTCCCTGGATGCCAGGACAGTGATGAA
GTCAGGCCCTGAGATCGTGAAAGGCTGGCCTCCGCTCCTTCTTCGAGAGTGCTCGGAGGACATCGAGAAGATGGT
GGAGAACCTGCGGCTGGGCAAGGTGTGCGAGGCGCGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC
CACTGTGGCACTGCTGCCGGTCTCTACCAACCTCTTCCAGCACATCGCCAGCACCAGTTCGGAGATGACGTCTAT
CCTGGACGACGTCCAGGTCTCTTGTACCGAACGCTGTGCAATCTACTCCCTGGGAACCAAGAACTTA
TGTGGAAGGCTTCGGCCAGCCCTCGGGGAGTGCTTGCCCGTCTGGCAGCAGCCATGCCGGTGGCGTTCTTGGGA
GCCGAGCTGAACGAGTACAACGCTGCTCCGTGTACACCACCAAGTCTCCGCGGAGCGGGCCATCCTGGGGCT
CCCCAACAGTGTGGAGGAGATGTGTCGACATCCCGGTGTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC
CGAGTCAGGTGCCCGCTACACAGAGATGCCGCATGTCATCGAGATCACGCTGCCCATGCTATGCAGCTACCTGCC
CCGATGGTGGGAGCGCGGGCCGAGGCACCCCTTCCGCCCTGCCGCGCGGCCCGCCACCCCTGCACAGCTGT
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC
CTCCTGGATGAAGCGGCTGGCTGTGTTGCGACAGCCCATTTGTGAGCCGTGCACGGCCGGAGCTCCTGCAGTCCCCA
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCCTGGA
GGCCAAGGCGGAGGCCAGGAGGGCGAGCTGCTGGTGCGGGACGAGTTCTCTGTGCTCTGCCGGGACCTCTACGC
CCTGTATCCGCTGCTCATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCAGCGCGGA
GGAGCTGTTAGGATGGTGGGCGAGATCTTCATCTACTGGTCCAAGTCCCACAACCTTCAAGCGCGAGGAGCAGAA
CTTTGTGGTCCAGAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG
AGATATACAGTCCGGTGGCTCGGACCAGGAACGCACCAAGAAGAAGCGCGGGGGGACCGGTACTCTGTGCAGAC
GTCATGATCGTGGCCACACTGAAGAAGATGCTGCCCCATCGGCCTGAATATGTGTGCGCCACCGACCAAGACCT
CATCACGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

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FIGURE 5403D

TCACCTTCAGGGAAAGGTCGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGGCGTCCCGGGTCG
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCGCAGAGTCCAGGAAGTGTACGCCGTGCTCTACTACCTGGA
CCAGACCGAGCACCCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT
CGTGGCCTGTTTCCGTATGACGCCCCGTGTACAACCTGCCCACGCACCGGGCATGTAACATGTTCTTGAGAGCTA
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAAGCTGGGGA
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCCCTGCACCAGTTGGTCTGCACTTCAGCCG
CACTGCCCTGACGGAAAAAGAGCAAACTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAACAGAT
GGAGAAGCAGAGGCTCTTGTACCAGCAAGCACGGCTGCACACCCGGGGGGCGGCCGAGATGGTGCTGCAGATGAT
CAGTGCTGCAAAAGGAGAGACAGGTGCCATGGTGTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA
GGCACTGATGCAAAACATGCAGCGTCTGGATCTCAATGCCTTTGAGAGACAGAACAAGGCCGAGGGGCTGGGCAT
GGTGAATGAGGATGGCACTGTCAATCGCCAGAACGGAGAGAAGGTCAATGGCGGATGATGAATTCACACAAGA
CCTGTTCCGATTCTTACAATTGCTCTGTGAGGGGCACAATAATGATTTCCAGAACTACCTACGGACACAGACAGG
GAACACGACCACTATTAACATCATCATTTGCACTGTGGACTACCTCCTGCGGCTGCAGGAATCCATCAGCGACTT
CTACTGGTACTACTCGGGCAAGGATGTCAATTGAAGAGCAGGGCAAGAGGAACCTTCTCCAAAGCCATGTCGGTGGC
TAAGCAGGTGTTCAACAGCCTCACTGAGTACATCCAGGGTCCCTGCACCGGGAACCAGCAGAGCCTGGCGCACAG
TCGCCTATGGGACGCAGTGGTGGGATTCTGCACGTGTTGCCCCACATGATGATGAAGCTCGCTCAGGACTCAAG
CCAGATCGAGCTGCTGAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTGATGTTGCTGTGCTACTAGAAGG
GAACGTGGTGAACGGCATGATCGCCCGGCAGATGGTGGACATGCTCGTGGAATCCTCATCCAATGTGGAGATGAT
CCTCAAGTTCTTCGACATGTTCTGAAACTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA
TCCCCGTGGCCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTTCAGCGGTCCAGAAAT
CCAGTTCTGCTTTCTGCTGCTCCGAAGCGGATGAGAACGAAATGATCAACTGCGAAGAGTTCCGCAACCGCTTCCA
GGAGCCAGCACGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTGCGAGCATGTGCCGCATGACCC
TCGCCTGCACAACTTCTTGAGCTGGCCGAGAGCATCTTGAGTACTTCCGCCCCCTACCTGGGCCGCATCGAGAT
CATGGGCGCGCTACGCGCATCGAGCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCCCAGTGGGAGATGCC
CCAGGTGAAGGAGTCCAAGCGCCAGTTCACTTTCGACGTGGTGAACGAGGGCGGCGAGGCTGAGAAGATGGAGCT
CTTCGTGAGTTTCTGCGAGGACACCATCTTCGAGATGCAGATCGCCGCGCAGATCTCGGAGCCCCGAGGGCGAGCC
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGGCGGAGGCGGGCGGGAAGGCGGAGGAGGGCGCGGGCGGGCT
CGAGGGCACGGCGGCCACGGCGGGCGGGGGCGACGGCGCGGGTTGTGGCGGGCGCAGGCCGGGCCCTGCGAGG
CCTCAGCTACCGCAGCCTGCGGGCGCGGTGCGGGCGGCTGCGGGCGGCTTACGGCCCCGAGGCGGGCCACCGCAGT
GGCGGGCGCTGCTCTGGGCAGCAGTGACGCGCGCTGGGGCCGCTGGCGCGGGGGCGGGCGGGCGGGCGGGCT
GCTCTGGGGCTCGCTGTTTCGGCGGGCGGCTGGTGGAGGGCGCCAAGAAGGTGACGGTGACCGAGCTCCTGGCAGG
CATGCCCCGACCCACAGCGACGAGGTGCACGGCGAGCAGCCGGCCGGGCGGGCGGAGACGCAGACGGCGAGGG
TGCCAGCGAGGGCGCTGGAGACGCCCGCGGAGGGCGCTGGAGACGAGGAGGAGGCGGTGCACGAGGCGGGCGGG
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGGCCCTTCCGGCCCCGAAGGGGCTGGCGGTCTCGGGGACAT
GGGGGACACGACGCCTGCGGAACCGCCACACCCGAGGGCTCTCCATCCTCAAGAGGAAATTGGGGGTGGATGG
AGTGGAGGAGGAGCTCCCGCCAGAGCCGAGCCGGAACAGAGCTGGAGCCGAGAAAGCCGATGCCGA
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACAGAGCCCCCAAGAAGCAAGCACCTCCCTACCCCCCTCC
AAAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAACTGGAGGTGCAGAGGGTGAAGTTCTGAACTACCTGTC
CCGGAACTTTTACACCTGCGGTTCTTGCCTCTTCTTGGCATTGTCATCACTTCTGCTGTTTTATAA
GGTCTCAGACTCTCCACAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTACAGGTGCAGGCTCTGG
TGGCAGCTCTGGCTGGGGCTTGGGGGCCGGAGAGGAGGAGGAGGCGATGAGGATGAGAACATGGTGTACTACTT
CCTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGGTGGCCTTTCT
CTGCATCATTGGCTATAATTGTCTCAAGGTGCCCTTGTCTTAAGCGGGAGAAGGAGCTGGCCCCGAAGCT
GGAGTTTGATGGCCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGCGAGTGGGACCGACTGGTGCT
CAACACGCCGTCTTTCCCTAGCAACTACTGGGACAAGTTTGTCAAGCGCAAGGTCCTGGACAAACATGGGGACAT
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGGACCTGGCCACACTAGAGATCACAGCCACAATGAGCG

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FIGURE 5403E

CAAGCCCAACCCGCCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCGG
GGTCATCTTCACAGACAACTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCCTCTGTAC
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTTCGTCTACCTGTACACCGTGGTGGCCTT
CAACTTCTTCCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGGG
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCTTCGTATCGTCATCCTGTTGGCCAT
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA
GGAGCACAACCTGGCCAATTACATGTTTTTCTGATGTATTTGATAAACAAGGATGAGACAGAACACACGGGTCA
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTCTTCCAGCTGGTGATTGTTTCCGTAAGCA
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCCACCTCAAGTGCCTTATTCTCACAGCA
AGCCCCTTAGTCCCCAAGCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

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FIGURE 5404

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCTG
TTTCCGTTTTCCACCACCTCTTCCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAAGTGTAGCCTCCAGCCCTG
GTTGTGGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT
CGACAGGTACAATCCTGAGAACCTGGCCACCTTGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA
TCTGGAAGCCAACCTGGCTGTCTGTAAGCTGTACCAGTTCAACCCAGCCTTCTTTTCAGACCACGGTACCCGCCCA
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCCTGTGCAAGTGCATGATCGACCAGGCACA
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG
GCAAGCCCTGGATGAAAACATGGACCTCTTGGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCCGACAG
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA
AGAGAGCATTAAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA
GTAACCTTCAGGTGTTTAATAAAGATGTGTTGACTCAG

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FIGURE 5405

MAMFEQMRANVGKLLKGIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLYQFNPAFFQTTVTAQILLKALT
NLPHTDFTLCKCMIDQAHQEERPIRQILYLGDLETCFQAFWQALDENMDLLEGITGFEDSVRKFFICHVVGITY
QHIDRWLLAEMLGDLSDSQLKVWMSKYGWSADESGQIFICSQEESIKPKNIVEKIDFDSVSSIMASSQ

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FIGURE 5406

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5407

MSNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLLCGEEQGSDAALHFNPRLDTSEVVFNSEQGSWGREER
GPGVPFQRGQPFEVLIIASDDGFKAVVGDAQYHHFRHRLPLARVRLVEVGQDVQLDSVRIF

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FIGURE 5408

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTGCGGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTCCGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5409

GTGTTGTACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC
CATTCTGGTGCCGTCACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCCATGGCAGAGCCAGACCCCTCTCACC
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTCAGACTCTGAGGGAGGAGCCGCTGGTG
GAGAAGCAGACATGGACTTCCTGCGGAACCTATTCTCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGC
TGGACGAGCTGACCTTGGAAGGGGTGGCCCCGGTACATGCAGAGCGAACGCTGTGCGCAGAGTCATCTGTTTGGTGG
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTTCGCTCTCCATCCACCGGCCTCTATGACAACCTAGAGA
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCCCTTCTTCGCCC
TCGCCAAGGAACTCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGG
GGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG
TGGAGGCGCACGGCACCTTCTACACATCAGACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA
TGAAAGAGAAGATCTTCTCTGAGGTGACGCCCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT
TTTTTGGTGAGAGCCTCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCCTGAAGGTGGACCTCCTCCTGG
TCATGGGTACCTCCTTGCAGGTGCAGCCCTTTGCCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTTCCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC
TCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCAGTCGGGGGCGG
GGGTCCCCAACCCAGCACTTCAGCTTCCCCCAAGAAGTCCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG
AGAGGGAGAAAACCCAGTGACAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC
CGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCCCCAATCTCTTACAGCTCCCT
CCCCAAAACCTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG
CCCCACGGGGCCAGGGCTACCCAGAACTTTTAACTCTTCCAGGACAGGGAGCTTCGGGCCCCCACTCTGTCTC
CTGCCCCCGGGGGCCTGTGGCTAAGTAAACCATAACCTAACCTACCCAGTGTGGGTGTGGGCCTCTGAATATAAC
CCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG
GGCCCCCTTCACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAAAAAC
AAAAACAATAAC

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FIGURE 5410

MAEPDPSHPLETQAGKVQEAQDSDDSEGGGAAGGEADMDFLRNLFSQTLNLSGSQKERLLDELTLEGVARYMQSER
CRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHY
FMRLKDKGLLLRCYTQNIIDTLERLGLQEDLVEAHGTFYTSCHVSASCRHEYPLSWMKEKIFSEVTPKCEDCQ
SLVKPDIVFFGESLPARFFSCMQSDFLKVDLLVMGTSQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMI
MGLGGGMDFDKSKAYRDVAWLGECDQGCLALAEELGWKKELEDLVRREHASIDAQSGAGVNPSTSPKPKSPPP
AKDEARTTEREKPQ

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FIGURE 5411

CGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCCCATTCTG
GTGCCGTACAGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGTGACGGGAC
AGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCGACTCAGATTACAGACTC
TGAGGGAGGAGCCGCTGGTGGAGAAGCAGACATGGACTTTCCTGCGGAACCTTATTCTCCAGACGCTCAGCCTGGG
CAGCCAGAAGGAGCGTCTGCTGGACGAGCTGACCTTGGAAGGGGTGGCCCCGGTACATGCAGAGCGAACGCTGTCTG
CAGAGTCATCTGTTTGGTGGGAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGG
CCTCTATGACAACCTAGAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACA
TCCGGAACCCCTCTTCGCCCTCGCCAAGGAACCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCAT
GCGCCTGCTGAAGGACAAGGGGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGG
GCTGGAACAGGAGGACTTGGTGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCA
CGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTGAGAGCCT
GGTGAAGCCTGATATCGTCTTTTTTGGTGAGAGCCTCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCCT
GAAGGTGGACCTCCTCCTGGTCATGGGTACCTCCTTGACGGTGACGCCCTTGCCTCCCTCATCAGCAAGGCACC
CCTCTCCACCCCTCGCCTGCTCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTCCCTGGGGATGATTATGGG
CCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGG
CTGCCTGGCCCTTGCTGAGCTCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCGGGAGGGAGCACGCCAGCAT
AGATGCCCAGTCGGGGGCGGGGGTCCCCAACCCAGCACTTCAGCTTCCCCCAAGAAGTCCCCGCCACCTGCCAA
GGACGAGGCCAGGACAACAGAGAGGGAGAAACCCAGTGCACAGCTGCATCTCCCAGGCGGGATGCCGAGCTCCTC
AGGGACAGCTGAGCCCCAACCGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCC
CCAATCTCTTACAGCTCCCTCCCCAAAACCTGGGGTCCCAGCAACCCCTGGCCCCCAACCCAGCAAATCTCTAACA
CCTCCTAGAGGCCAAGGCTTAAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCCTCCTGGGCTAAGGAGTA
ACCTCCCTCATCTCTAACTGCCCCACGGGGCCAGGGCTACCCAGAACTTTTAACTCTTCCAGGACAGGGAGCT
TCGGGCCCCCACTCTGTCTCCTGCCCCCGGGGGCCTGTGGCTAAGTAAACCATACTAACCTACCCAGTGTGGG
TGTGGGCCTCTGAATATAACCCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTC
AGCTCCCAAAGTGGGTGGTGGGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTT
ATTGGAGACAAATTAAAAACAAAACAATAACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5412

MDFLRNLF SQTL SLGSQKERLLDELTLEGVARYMQSERCRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHL
PYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLKDKGLLLRCYTQNIDTLERIAGLEQEDLVEAH
GTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLPARFFSCMQSDFLKVDLLLVMGT
SLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMIMGLGGGMDFD SKKAYRDVAWLGECDQGCLALAE LLGW
KKELEDLVRREHASIDAQSGAGV PNPSTSASPKKSPPPAKDEARTTEREKPQ

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FIGURE 5413

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCCTCAGGATCTGATTG
GCTCGTCACGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTC
CCGGTCCAAGATGGCTGCGTCCATGGCGCGGCGCTTGTTGGCCTTTGCTGACTCGTCGGGGGTTCCGGCCCCGGGG
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCAGAAAGAGGCCGCACA
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAG
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGCTGGC
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA
GGAGCTTGTTACCTGTACCCCAGGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCAA
CCAGACCCACCCAGACGTGCCCGTCGGGGATGAGAGCCAGGCTCGAGTGCTCCACATGGTTCGGAGACAAGCCAGT
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAATTGGCGAGAACTCGACATCATCCGTGAGAAGCGCCTGTCCCA
CGTGCTTGCCACCGGTCTTATTACCTGCGCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATT
CAACAAGCTTCTCCGCCGGGGCTTACCCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTTTGAAGGCTG
TGGGATGACACCAAATGCCAACCCTCCCAAATTTACAACATCGACCCTGCCCGCTTCAAAGATCTCAACCTGGC
TGGAACAGCGGAGGTGGGGCTTGACAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGAT
GGTTTGCTCCAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA
CTTACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCCT
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCTTGATATGCCACCCCAAGAACTGGG
CCTCCCCGCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTCACCAGTGC
TTCCAAGTGCACAGACTTCCAGAGCCGCCGCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC
CCACACGGTGAACGCCACCGCCTGTGCTGTCCCCGCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA
CGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCTACCTCGGCACTGATCGGATCACAGCCCCCTACCCACGTGCC
TCTCCAGTACATCGGCCCCAACCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAGCTAAGAACCCAC
CCACAGCAGCCCTCGGGGGTGTCACTGCTTCTGGAGTTTCCAGGAGACCCCGGACACCTGGGACCTGTGTTGCTGA
GCCCGTCTGACATCTGTGTTCTTCTGTCAGCTCCACGCCCGGGCCCCCTGGACCACGGGGTCCACCTCTCCTCT
GTCCTTGCTGCCTCAGAGTCAGTCACTGACCCTGTTATCATTGAGGGTCCCAGTGGGAAGCAGGACGTCTGGGCT
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTTCTCCTACAGTGCTGA
GCAAAAAGTCCCCAATAAATGGTCAGGACAAAAAAAAAAAAA

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FIGURE 5414

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRLLYEYAREGYALPQLDIERFCACPEEAAHALE
LRKGELRSADLPAAISTWQELRQLQEQIRSLEEEKAAVTEAVRALLANQDSGEVQQDPKYQGLRARGREIRKELV
HLYPREAQLEEQFYLAALKLPNQTHPDVPVGDESQARVLHMGDKPVFSFQPRGHLEIGEKLDIIROKRLSHVSG
HRSYYLRGAGALLQHGLVNFNFKLLRRGFTPMTPDLLRGAVFEGCGMTPNANPSQIYNIDPARFKDLNLAGTA
EVGLAGYFMDHTVAFRDLPVRMVCSSCYRAETNTGQEPRLYRVHHFTKVEMFGVTGPGLEQSSQLLEEFSLQ
MEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMPGRGRFGEVTSASNCTDFQSRRLHIMFQTEAGELQFAHTV
NATACAVPRLLIALLESNQKDGSVLPALQSYLGTDRITAPTHVPLQYIGPNQPRKPGLPQGPAVS

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FIGURE 5415

AGCTGGATTACGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCTG
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTTCGCGATCGGTCACTTTTTCTCCTTTCTG
AGTCTCTTATCCCCTACCACAGGGACGGCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA
CGTCCCTAACTTGTGGCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGC
ACCGCCTGGGGCCCCCAAGCGCCGCTCGGAAGCTGGGGCCCCACGGAAGGCCGCGCAGCTGAAGGGTGTGG
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGC GGCTCAGCA
CTGGCCGCGAGGCCGTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG
GCGGCCGCACCCAGGACCTGCCAGGCGTCAAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGA
AGAAGTGAAGGCTGGGGGCACAGTGGGCTGGGCGCCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGG
GTCTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATC
AGGACCACTATTAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGCCCCCTCTGTCAACACCCTTGGCTCCTGTGTT
TAGAGGGGTGGCCTGAAGGACCTTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGTTTTAAT
AAACAGACCCTGGCGCTTGTGATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5416

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHR LGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKKCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5417

AGCTGGATTGAGCGTGTCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGGACGGC
CCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACACGTCCCTAACTTGTGGCCCAGCTCTGGTT
CCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGCACCGCCTGGGGCCCCCAAGCGGCCGCCT
CGGAAGCTGGGGCCCCACGGAAGGCCGGCCGCAGCTGAAGGGTGTGGTCCCTGTGCACGTTTACCCGCAAGCCGAAG
AAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGCTCAGCACTGGCCGCGAGGCCGTCTGCTTCATCCCT
GGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGGGCGGCCGCACCCAGGACCTGCCAGGCGTC
AAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGAAGAAGTGACGGCTGGGGGCACAGTGGGCT
GGGCGCCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGGGTCCTCCGATGCTGGCCTTTGCGCCTCTA
GAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATCAGGACCCTATTAAGCCATAGGAGTCCTG
GGGGTGCAAAGGGTGCCCTCTGTCAACACCCTTGGCTCCTGTGTTTAGAGGGGTGGCCTGAAGGACCTTTTCTG
CTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGTTTTAATAAACAGACCCTGGCGCTTGTGATGTAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 5418

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5419

GGGGAGCTTGCGGCACAGCTAGGGCATCCCGGCGAGGAGCGCCGCCAGGCCCCGGGGCCACAGCCGGGCCTGGCGG
GGGGACCATGGGCGCCTCGGTCTCCAGGGGCGGGCCGCCCCGGGTCCCCGCGCCGGAGCCGGAACCCGAAGAGGC
GCTGGACCTGAGCCAACTACCCCCAGAGCTGCTTCTGGTGGTGTGAGCCACGTCCCCCGCGCACGCTGCTCGG
GCGCTGCCGCCAAGTGTGCCGGGGCTGGCGAGCCCTGGTGGACGGCCAGGCCCTGTGGCTGCTGATCCTGGCCCG
CGACCACGGCGCCACCGGCCGCGCGCTGCTGCACCTCGCCCGCAGCTGCCAGTCTCCCGCCCGTAACGCCAGGCC
TTGCCCCCTGGGCGCCTTCTGCGCGCGCAGACCCATCGGACGCAACCTTATTCGCAACCCCTGCGGCCAAGAAGG
CCTCCGAAAGTGGATGGTGCAACACGGTGGGGACGGCTGGGTGGTGGAGGAAAAACAGGACAACCGTGCTGGGGC
CCCTTCTCAGACGTGCTTCGTGACTTCATTAGCTGGTGGTGGCAAGAAGCAGGTCTTGGACCTAGAGGAGGAGGG
TCTGTGGCCAGAACTGCTGGATAGTGGCAGGATTGAGATTTGTGTCTCTGACTGGTGGGGAGCCCCGACACGACAG
CGGCTGTATGTACAGACTCCTCGTCCAACCTTCTAGACGCCAACCCAGACTGTTCTAGATAAATTCTCTGTGTGCC
TGATCCCATCCCGCAGTGGAACAACAATGCCTGCCTTCACGTACCCACGTGTTCTCCAACATCAAGATGGGCGT
CCGCTTTGTGTCTTTTGAACACCGGGGCCAGGACACACAGTTCTGGGCTGGCCACTATGGAGCCCGTGTGACCAA
CTCCAGTGTGATCGTGCGAGTCCGTCTGTCCTAGTCCAGCACTACCCCTTCTTGCAAGACAGCCTGACTGTGCCTT
CCAGGGCCTGGGACCATTTGGCTGGGACCCCTCATTAAACCAACCAAGCACTTGTAACCTCCCTGGCATACTGAGAAT
TCCTGGGTCCAATCAAAGGCCCTGACGGGCCCTGTCTTCAGGTTCTAGAACTACCAGAAGAAGCTTCTTCCATC
TTATCTACCTACTGCAGCTGCTGCTTTGCGGGGGGGCCCTACTGTACTGAGGGGAAACCCACAAGTGAGCATGGG
GGAATGCCCATCCTGGAGAAGAATTCTTGCCCTCCCCTCTCTTCTCCTCCCAACCAAAACCCCTCCGATCCAGCCC
CAGGCCCCCTCTGTACCATCCCCTCCCCTCCGCACCACTGACCTCTTGCTCCTGTTGTTTCTGCCACAGGGACTT
CCTTGGTCCCTTCAGGGAAGCCCTCAACTCATCTCTGAACCTAGAATCTCATCCTTAGGGCTCAGAGAGTCCCAG
CCCTAAGGGTGTGAACCTCACCTCCTGGGGCTTCCGAGCTACAGGGCTGGGACCAGGTCATGCAGCTGAAAGTCT
ACGTTAAAAAAAAAAGTTTGGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCA
GGCGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATCCA
AAAAATTAGCCGGGCTTGGTGGTGTGCACCTGTAATTCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGA
GCCCCGGGAGGCAGAGGCTGCAGTGAACCAAGATCATGCCACTGCACTCCAGCCTGGGCAACACAGCGAGACTCCG
TCTCAAAAAGAAAAAGTTTGGATCAGGCAGGGTGGCTCACACCTGTAATCCCTGCACTTTGGGAGGCCAAGGTGG
GAGGATCAGTTGAGCCCCAGAGTTCAAGACCAGCCTGGGCAATGTAGTAAGACCCCCATCGCTACAAAAAATACA
AAAGTTAGCCAGGTACAGTAGTACACACCTGTAGTCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCATTTGTG
CCCAGGTTGAGGCTATAGTGAGCCATGATCATAACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTC
AAAAAAAAAAAAAGAAATTTGGAGATGGTTCTGCCACTCTGGTTTCTCTGAAAAAACGAGGTAATTCCTGAGCCC
AACCTGATCCTCAAGGACCTGTAATTGTGTGGTATTTAAATTAATAACATTATTTTTATTTTACTTTTTT
TCAACAGTAAGAATAATATATCAGCAGCATGTATCTGCCAATCATATGTAATAAATTTCTTATTTTGCC

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FIGURE 5420

MGASVSRGRAARVPAPEPEPEEALDLSQLPPELLLVVL SHVPPRTLLGRCRQVCRGWALVDGQALWLLILARDH
GATGRALLHLARSCQSPARNARPCPLGRFCARRPIGRNLI RNPCGOEGLRKWMVQHGGDGWVVEENRTTVPGAPS
QTCFVTSFSWCCCKQVLDLEEEGLWPELLDSGRIEICVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFS AVDPD
IPQWNNNACLHVTHVFSNIKMGVRFVSFEHRGQDTQFWAGHYGARVTNSSVIVRVRLS

[illegible]

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FIGURE 5422

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTIVRGSK
GAKDGALTLLLLDEFENMSVTRSNSLRDSSPPPPARARQENGMPPEEPATTARGGPGKAGSRGRFAGHSEAGGGSGD
RRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHPSRGAQQGEPH
DVAPNGPSAGGLAIPQSSSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPAVEGPPGPRSPQREPQRVS
HEQFRAALQLVVDPGDPRSYLDNF IKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQH
ENVVEMYNSYLVGDELWVWMEFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALSVLHAQGVHRDIKSDSILLTH
DGRVKLSDFGFCQAQVSKEVPRRKSLVGTPYWMAPELISRLPYGPEVDIWSLGIMVIEMVDGEPPYPFNEPPLKAMK
MIRDNLPPRLKNLHKVSPSLKGFDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNRTR

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FIGURE 5423

AGTTGGTGGAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTACCTGAGTCTCGCTGGAGCTCTTC
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCCTCGGATCAGGCGTC
CCCTGAAGTCGGCAGCCCCCTCTGCGTCCCCCTTCGGTCCCGCTAGGACCCCGTCCGGGCTGCCGTGCGCTCGTC
GCTATGGCGCCCCACCATCCAGACCCAGGCCCAGCGGGAGGATGGCCACAGGCCCAATTCCCACCGGACTCTGCCT
GAGAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCCTTCGACCCCAAGTTTCATC
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGAAAACAGCACAAACATGACCTC
CTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCAATGTTCTT
CTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTAGGCCCCCACCAGCTCCAAGAGATCCCAGCAGCAC
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG
AAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC
CAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGCATTACAGCAAACCCCGAGTC
ACACCGGTGGAGGTTCATGCCTGTCTTCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC
TCAGACCCAGCCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG
ATGGATGAGGAAGGGAACCACTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGTTGAAGAAACGAAAGCGGGAC
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAACCTGGAACGTG
AAGAACAAAGCTAGCAAGGGCTATGAGGAAACTACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT
GAGTTGGAACACAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT
GTGGTCAAACATCGGGACATGAATGAGAAGGAAGTGAAGCTCAGGAGGCACGGAAGGCCCAGCTAGAAAACAC
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCCCGGGCTGCCCGTGAC
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC
CAAGGTGGCAGTGACAATGATTTCAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGAGCCACAGCCGCAGC
GCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT
GAAGCTGATAGTGACAGTGACTGAGTCCCAGGGCATTAGGGCTGGTTTCAGACACCATTATTGTGAGCAGCAAAG
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCACTTGTTTGTTCACCCACCCCAACCTTTGCTGTATAAAGT
CAACTTCTCTTTA

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FIGURE 5424

MAPTIQTQAQREDGHRPNSHRTLPERSGVVCrvKYCNSLPDIPFDPKFITYPFDQNRfVQYKATSLEKQHKHDL
TEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKRSQQHAKVVPWMrKTEYISTEFNRYGISNEK
PEVKIGVSVKQQFTEEEIYKDRDSQITAIEKTFEDAQKSISQHYskPRVTPVEVMPVFPDFKMWINPCAQVIFDS
DPAPKDTSGAAALEMMSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRdQEEEMDYAPDDVYDYKIAREYNWNVK
NKASKGYEENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLNHE
PEEEEEEMETEEKEAGGSDEEQEKGSSEKEGSEDEHSGSESEREEGDRDEASDKSGSGEDESEDEARAARDK
EEIFGSDADSEDDADSDDEDRGQAQGGSDNDSDSGSNGGGQRSRSRSHSRsASPFPSGSEHSAQEDGSEAAASDSSE
ADSDSD

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FIGURE 5425

AGGCCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGA
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACC
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTCAGGCCCCCACCAGCT
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACC
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGC
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTTCATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCAT
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCAAGGACACGAGTGGTGACGCTGCGTTGGAGATGATGTCTC
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAGTTTGTGGCCTATTTCCCTGCCTGTAGAAGAGACGT
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTC
GGGAGTACAACCTGGAACGTGAAGAACAAAGCTAGCAAGGGCTATGAGGAAACTAATACTTCATCTTC

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FIGURE 5426

TTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCCATGCCGTCCAAGGGCCCCGCTGCA
GTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAACGCGGCAATGGTCTCATCAA
GGTGAACGGGCGGCCCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCTGGAGCCAGTTCTGCTTCT
CGGCAAGGAGCGATTTGCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCACGTGGCCCAGATTTATGC
TATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCCTATTACCAGAAATATGTGGATGAGGCTTCCAAGAAGGAGAT
CAAAGACATCCTCATCCAGTATGACCGGACCCTGCTGGTAGCTGACCCTCGTCGCTGCGAGTCCAAAAAGTTTGG
AGGCCCTGGTGCCCGCGCTCGCTACCAGAAATCCTACCGATTAAGCCCATCGTGACTCAAACTCACTTGTATAAT
AAACAGTTTTTTGAGGGATTTTAAAGTTTCAAAAAAAAAAAAAAAAAA

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FIGURE 5427

MPSKGPLQSVQVFGRKKTATAVAHCKRGNGLIKVNRPLEMIEPRTLQYKLLEPVLLLGKERFAGVDIRVRVKGG
GHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRTLLVADPRRCESKKFGGPGARARYQKSYR

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FIGURE 5428A

AGAGAACAGATTTCGGAAGCTGGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCACTCCGCTTCGCGATTGCC
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCAGGGAACCAGCGGGGAACTGAGGCTCGGGGT
GGAGCGCAGGATTGTGGGACGCGCCAAGACTGCTGTCTTTCCAGCAGCAGCGGAAGATGTCGGACAGCGAGGAC
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGCGG
AGTGCAGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATATGATGAG
GAAGAGGAGGAAGAAGATGATGACCGACCCCCAAGAAACCCCGCCATGGAGGCTTCATTCTGGACGAGGCTGAT
GTTGACGATGAGTATGAGGACGAGGACCACTGAGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA
GCCTCCAATATCGATAATGTTGTCCTGGATGAAGATCGTTCTGGGGCTCGCCGCTGCAAAACCTCTGGAGGGAC
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA
GGATCTGATGAGCTCTCAGACGACATCACCCAGCAGCAGCTGCTCCAGGAGTCAAGGATCCCAATCTGTGGACT
GTCAAATGTAAGATTGGGGAGGAACGGGGCCACGGCCATTTCTTTGATGCGCAAGTTCATTGCCTACCAGTTCACA
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCCTACAAG
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGGCTACTGGAACAGCAGATGGTGCCC
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACCTGAAACCAAAGTCTGGGTCCGCCCTC
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCAGCCAGAACACCATCTCCCTGAAG
ATGATCCACGCATCGACTACGATCGCATCAAGGCCCGCATGAGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAG
TTTAAGCGGCCTCCACAGAGGCTGTTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGATGTTGCCTCTGATGGT
GACTTCCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGTCTGCTGTG
ATCACGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAAAGTTTGAGGACCAGCCAGAGGGCATTGACCTGGAG
GTGGTGACTGAGAGCACAGGGAAGGAGCGGGAGCACAACCTTCAAACCTGGGGACAACGTGGAGGTCTGTGAGGGT
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGGATGGCAACAAGATCACCATCATGCCAAAGCATGAGGAC
CTCAAGGACATGTTGGAGTTCCAGCCAGGAACCTAGAAAATACTTCAAGATGGGGGACCACGTGAAGGTGATT
GCTGGCCGATTTCGAGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTTTCGTTATCCTGTTCTCTGACCTC
ACCATGCATGAGCTGAAGGTGCTCCCCCGGGACCTGCAGCTCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG
GGCCAGCATGAATGGGGCGAGCTGGTGCAGCTGGATCCCCAGACTGTGGGTGTCATCGTGCGACTAGAACGGGAG
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGACTGTGAGACATCAGGCTGTGACCCGGAAGAAGGACAAC
CGCTTTGCTGTGGCCTTGAGCTCAGAGCAGAACAACATCCATGTGAAAGACATCGTTAAGGTCATTGATGGCCCC
CACTCAGGCCGAGAAGGGGAGATTGCGCATCTCTTCCGAAGCTTCGCCCTTCTACATTGCAAGAACTGGTGGAG
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGTGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGCTGGAGGTCAGCGT
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCGGGGCGGAGGGACAACGAACCTCATC
GGCCAGACCGTGCATCTCTCCAGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAAGATGCCACAGAGTCCACG
GCCCCGTGTGGAGCTGCACCTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTCACCACGGTGGGCTCACGG
CGCCCCGGGCGGCATGACCTCGACCTATGGGAGGACGCCCATGTATGGCTCCCAGACGCCCATGTATGGCTCTGGC
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGCACCCACACTACGGCTCACAGACG
CCCCTGCATGATGGCAGCCGCACTCCTGCCAGAGTGGGGCTGGGACCCCAACAACCCCAACACGCGCTCACGG
GCTGAGGAAGAATATGAGTATGCTTTTCGATGATGAGCCACCCCGTCCCCGCAGGCCTATGGGGGAACCCCAAT
CCCCAAACACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATAACAACCCGCAGACGCCAGGGACG
CCGGCCATGTACAACACAGACCACTTCTCTCCCTATGCTGCCCCCTCCCCACAAGGTTCTTACCAGCCCAGCCCC
AGCCCCCAGAGCTACCACAGGTGGCGCCAAGCCCAGCAGGCTACCAGAATAACCACTCCCCAGCCAGCTACCAC
CCTACACCGTCGCCCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTTGGCTACAGTCTTATGACACCTGGA
GCTCCCTCCCTGGTGGCTACAACCCACACAGCCAGGCTCAGGCATCGAGCAGAAGTCCAGCGACTGGGTAACC
ACTGACATTACAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTCATCCGCAGT
GTCACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGAGAAGGTTGTGAGCATTTCAGTGAGCACCTGGAG
CCTATCACCCCCACCAAGAACAACAAGGTGAAAGTGATCCTGGGCGAGGATCGGGAAGCCACGGGCGTCTTACTG
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCCTG
GGGAAGCTCCTGGAAGCCTGAAGCAGGACAGGCGCGGTGGACTTCGTGCGATGAAGAGTGATCCTCCTTCTTCCC
TGGCCCTTGGCTGTGACACAAGATCCTCCTGCAGGGCTAGGCGGATTGTTCTGGATTTCCTTTTGTTCCTTT

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FIGURE 5428B

TAGTTTTCCATCTTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG
TACCTCCTCCCCACAGCTTGCTTTTGTGTACCGTCTTCAATAAAAAGAAGCTGTTTGGTCTAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 5429

MSDSEDSNFSEEDSERSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEEEEEYDEEEEEEDDDRPPKKPRHGGF
ILDEADVDEYEDQWEDGAEDILEKEEIEASNIDNVVLDEDRSGARRLQNLWRDQREEELGEYYMKKYAKSSV
GETVYGGSDLSDDITQQQLLPGVKDPNLWTVKCKIGEERATAISLMRKFIA YQFTDTPLQIKSVVAPEHVKG YI
YVEAYKQTHVKQAIEGVGNLRLGYWNQOMVPIKEMTDVLKVVEVANLKP KSWVRLKRG IYKDDIAQVDYVEPSQ
NTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGDFLIFEGNRYSRKGFLFKS
FAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTSTGKEREHNFQPGDNVEVCEGELINLQGKILSVDGNKITI
MPKHEDLKDMLEFPAQELRKYFKMGDHVKVIAGRFE GDTGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETA
SGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQVLNMYGKVVTVRHQAVTRKKDNRF AVALDSEQNNIHVKDIV
KVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHP
SAGGQRGGFGSPGGGSGGMSRGRGRRDNELIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQRL
TTVGSRRPGGMTSTYGRTPMYGSQTPMYGSGSRTPMYGSQTPLQDGSRTPHYGSQTPLHDGSRTPAQSGAWDPNN
PNTPSRAEEY EYAFDDEPTPSPQAYGGTPNPQTPGYDPDSSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQG
SYQPSPPSQSYHQVAPSPAGYQNT HSPASYHPTSPMAYQASPPSPVGYSPMTPGAPSPGGYNPHTPGSGIEQN
SSDWVTTDIQVKVRD TYLDTQVVGQTGVIRSVTGGMCSVYLKDSEKVVSISSEHLEPITPTKNNKV KVLGEDRE
ATGVLLSIDGEDGIVRMDLDEQLKILNLRFLGKLLEA

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FIGURE 5430

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT
GTTTCTGTGTCTTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC
CCATCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCTTACACGGTGAGACAAGCGGCCTGACTCGTGACTAT
TTTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATGGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT
CCCTTCCTTTCGCTGCGTCCCTTTGCAGGGGCGGTGGCGCTCTGCAAGGCCCAAGGGGGCGTGGTCCAGATGACTTT
GAATCCCAGTTGTTCGCCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCGAT
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCTCCCCCGCTTTCCATTGGCTGTAGCTCCGGCCCCGGG
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCGCGTGGCGTCAGCGCAAGATGGCGGCCTCGGCAGCGGTGTTCTCG
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCGCGGGCCCCA
GATCAGGCCCGCAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGGT
CCCAGCTATGCCAAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGAGCTGGTGGGACTGTGAGCGTCGTCTAT
ATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGATGAGTTCGACAATGATCCAATTCTGGTA
CAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCCCTT
CTCCCAGACCTCTGTCAGGAACCGTACTACCAGCCACCCTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG
CATCCTGAGTGGTCGCTGGCCACTGGCTGGAGGTTTAAAGAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT
GCCCCTTTATATGAAATTGTCATCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGAC
CCCCATGGCTTCATCTCCTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTAT
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAAG
ACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG
GCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG
CAGAACCTCTTCCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCTC
AAACTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTTCCAATAAAGTACA
TCCCAGACGCCACACCTGCTGTGTCCCGAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT
CATCGTCCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGGTGCTTTGTTGGATCAGAGCAGATTTTTACCC
TGGTCTCGGAATCTAAAAACCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCTG
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA
CTGTGGAGAGAATGTGTTATGGGCCTAGTGGGCCTCTGGTGGACCAGAGATTACCCCTCTCAACAGGCCAGCTGC
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAA

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FIGURE 5431

MASALS LGNKCDPFLRCVLCRGGGALQGPRGRGPDDFESQLSPFGSARRLVRSKRACGNPPDAFGLSRASVHPPL
PRVSI GCSSGPGRKRERVGGAAWRQRKMAASA AVFSRLRSGRLGSRGLCTRLATPPRRAPDQAAEIGSRGSTK
AQGFQQPGSEGPSYAKKVALWLAGLLGAGGT VSVVYIFGNNPVDENGAKIPDEFDNDPILVQQLRRTYKYFKDY
RQMIIEPTSPCLLPDPLQEPYYQPPYTLVLELTGVLLHPEWSLATGWRFKKRPGIETLFQQLAPLYEIVIFTSET
GMTAFPLIDSVDPHGFISYRLFRDATRYMDGHHVKDISCLNRDPARVVVDCKKEAFRLQPYNGVALRPWDGNSD
DRVLLDLSAFLKTIALNGVEDVRTVLEHYALED DPLAAFKQRQSRLEQEEQQLAELSKSNKQNLFLGSLTSRLW
PRSKQP

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FIGURE 5432

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCAGACTGTGATCCTAGCGCTCATTTCCTCCCCCA
GACACGGCCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTTTCGGGCGGGTCCAGGCCCTGGGGCCCCGCGGTC
CCCCTGCAGCGCCCCGGCTCCCCTGCCGCCTCTTCTTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAGGAGGCCGC
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGC CGCGGACCGGTCTACACCGAGCAGCCCCGGAGCGCCCCG
GCCTGATCTCCCACTGCCCCACGGGCTCTTG CAGGTGCCCTTCCGGGACGCCTGGCCTGGCACCTTCTCTTTCAT
CATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCCTGGAGCCTGCTGGCGCGCGTGGCTGG
CAGGCGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCCGGGACATTACGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC
GTACCGCGCGCGCTGCGAGCCGCTGCCGTTCGGGACCGCTGCACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC
GCGGTGCGGTCCGGGACTGCGCCCCCTGCGCACCGCTCGAGGACGAATGTGAGGCGCCGCTGGTGTGCCGAGCAGG
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTG
CACGGTCCCTGTCTCCACCAGCAGCTGCCTCAGCCCCAGGGGCCCCGTCTCTGCTACCACCGGATGCCTTGTCCC
TGGGCCTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCCTTTGAATG
CACCTGCCCCGCTGGGTTCTACGGGCTGCGGTGTGAGGTGAGCGGGGTGACATGTGCAGATGGACCCTGCTTCAA
CGGCGGCTTGTGTGTCGGGGGTGCAGACCCTGACTCTGCCTACATCTGCCACTGCCACCTGGTTTTCAAGGCTC
CAACTGTGAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCCTGGACCTGGGCCA
CGCCCTGCGCTGCCGCTGCCGCGCCGGCTTCGCGGGTCTCGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG
CGCCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGCGGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG
CCGCGACTGCCCGAGCGCGCGGACCCGTGCGCCGCGCGCCCCCTGTGCTCACGGCGGCCGCTGCTACGCCCACTT
CTCCGGCCCTCGTCTGCGCTTGCCTCCCGGCTACATGGGAGCGCGGTGTGAGTTCCAGTGACCCCCGACGGCGC
AAGCGCCTTGCCCCGCGCCCCGCCGGGCCTCAGGCCCGGGGACCCCTCAGCGCTACCTTTTGCCTCCGGCTCTGGG
ACTGCTCGTGGCCGCGGGCGTGGCCGGCGCTGCGCTCTTGCTGGTCCACGTGCGCCGCCGTGGCCACTCCCAGGA
TGCTGGGTCTCGCTTGCTGGCTGGGACCCCGGAGCCGTGAGTCCACGCACTCCCGGATGCACTCAACAACCTAAG
GACGCAGGAGGGTTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCCTCAAGG
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCTTTTCCCCCGCTACACACTGG
GCGCGCTGGGCAGAGGCAGCACCTGCTTTTTTCCCTACCCTTCCTCGATTCTGTCGTGAAATGAATTGGGTAGAG
TCTCTGGAAGGTTTTAAGCCATTTTCAGTTCTAACTTACTTTTCATCTATTTTGCATCCCTCTTATCGTTTTGA
GCTACCTGCCATCTTCTCTTT

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FIGURE 5433

MVSPRMSGLLSQTVILALIFLPQTRPAGVFELQIHSFGPGPGPGAPRSPCSARLPCRLFFRVCLKPGLSEEAES
PCALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVPFRDAWPGTFSFIETWREELGDQIGGPAWSLLARVAGRR
RLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRCGPGLRPCAPLEDECEAPLVCRAGCS
PEHGFCEQPGECRCLEGWTGPLCTVPVSTSSCLSPRGPSATTGCLVPGPGPCDGNPCANGGSCSETPRSFECTC
PRGFYGLRCEVSGVTCADGPCFNGGLCVGGADPDSAYICHCPPGFQGSNCEKRVDRCSLQPCRNGGLCLDLGHAL
RCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSCALGFGGRDCEERADPCAARPCAHHGGRCYAHFSG
LVCACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDPQRYLLPPALGLLVAAGVAGAALLLVHVRRRGHSQDAG
SRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSSSVDWNRPEDVDPEQGIYVISAPSIYAREVATPLFPPLHTGRA
GQRQHLLFPYPSSILSVK

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FIGURE 5434

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGGCCGGTTTGTGTGGTCGCCATTTTGCTGGTTGCATTACTGGGT
AATCGGGGCCCTGGCTTGCCGCGTCCGCCGGATACCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC
AGTTTGAGTCCCCCTTGCCGCTCCTTCAGGTCTCAGCGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGGCGCC
CCCCGGCCGGGCTCCCGCTCCAGGCCTCGCTCCCCCTGCGGGCCCTCTGAGCCCACCATGGCCGTCCCACCGGGCCA
TGGTCCCCTTCTCTGGCTTCCCAGGGCCCCAGGAGCACACGCAGGTATTGCCTGATGTGCGGCTACTGCCTCGGAG
GCTGCCCCCTGGCCTTCCGGGATGCAACCTCAGCCCCGCTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGGGCCCCAGCAGGCGCCACCCCAGGATTCGAGCAACAA
GAAGGAGAAGAAGGTCTGAACCATGGTTATGATGACGACAACCATGACTACATCGTGCGCAGTGGCGAGCGCTG
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAAAAGGCTTTCCTGAACCAGGCCCAGATTGAGCTGCG
GCTGCTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTCATGTT
CCGGAACCACTGTGCCTGGTATTTGAGCTGCTGTCTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCG
CGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTTCTGGCCACGCCTGA
GCTCAGCATCATTCACTGCGACCTCAAGCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCGCTCACC
TGAGGTGCTCCTGGGCACACCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA
CACCGGAGAGCCCTCTTCAGTGGCTCCAATGAGGTGACACAGATGAACCGCATTGTGGAGGTGCTGGGCATCCC
ACCGGCCGCCATGCTGGACCAGGCGCCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGCTGGACCCT
ACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA
GACGGGCGGGCCCGGGGGCCGGCGGGGAGCCGGGCCACAGCCCCGCCGACTACCTCCGCTTCCAGGACCT
GGTGTGCGCATGCTGGAGTATGAGCCGCGCCCGCATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG
CCGCACGGCCGACGAGGCCACCAACACGGGGCCGGCAGGCAGCAGTGCCTCCACCTCGCCCGCGCCCCCTCGACAC
CTGCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC
CTACCGCTACAGCAACCGATATTGTGGGGGCCCTGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT
CCCACCTCCCAGCCGCTGCGGCCCTGGGCAGGGGTGATGTGCCCCACAAGACACATCAAGCCCCCTGCCTCTGC
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACTTGGTCTGTCCTCCATCACCAACCTC
ACCACCACCCCGGAGCTGATGGATGTGAGCCTGGTGGGCGGCCCTGCTGACTGCTCCCCACCTCACCAGCGCC
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTCTCCACCCCTCCCGCCTCCTGA
TGACCCTGCCACTCTGGGGCCTCACCTGGGCCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCGTGACCCTG
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATAACCTCCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCCTGCACTGATTGGGGCCTGGGGCAGGGGGGTCA
AGGAGAGGGTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCCTTGGGGCCCTCTCCCCCTTTTTTCTATTTA
TTGTACCAAAGACAGTGGTGGTCCGGTGGAGGGAAGACCCCCCTCACCCAGGACCCTAGGAGGGGTGGGGGC
AGGTAGGGGGAGATGGCCTTGCTCCTCCTCGCTGTACCCCCAGTAAAGAGCTTCTCACAAAAA

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FIGURE 5435

MAVPPGHGPFSGFPGPQEHTQVLPDVRLLPRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRRAQQAP
PQDSSNKKEKKVLNHGYDDDNHDYIVRSGERWLERYEIDSLIGKGSFGQVVKAYDHQTQELVAIKI IKNKKAFLN
QAQIELRLLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVSLNLTRKLAQQQLCTAL
LFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGTPYDLAIDMWSLG
CILVEMHTGEPLFSGSNEVDQMNRIEVLGIPPAAMLQAPKARKYFERLPGGGWTLLRRTKELRKDYQGGPGTRRL
QEV LGVQTGGPGGRRAGEPGHSPADYLRFDLVLRLMEYEPAARISPLGALQHGGFFRRTADEATNTGPAGSSAST
SPAPLDTCPSSSTASSISSSGSSGSSSDNRTYRYSNRYCGGPGPPITDCEMNSPQVPPSQPLRPWAGGDVPHKT
HQAPASASSLPGTGAQLPPQPRYLGRPPSPPTSPPPPELMDVSLVGGPADCSPPHPAPAPQHPAASALRTRMTGGR
PPLPPPDDPATLGPHLGRLRGVPQSTAASS

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FIGURE 5436

GGATCCGGCAACGAAGGTACCATGGCCGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTCA
GTCCCCGTGGGGGTGGCTTTGGCGGCCGAGGGGGCTTTGGTGACCGTGGTGGTCGTGGAGGCCGAGGGGGCTTTG
GCGGGGGCCGAGGTTCGAGGCGGAGGCTTTAGAGGTTCGTGGACGAGGAGGAGGTGGAGGCCGCGCGGCGGTGGAG
GAGGAGGAAGAGGTGGTGGAGGCTTCCATTCTGGTGGCAACCGGGGTTCGTGGTCGGGGAGGAAAAAGAGGAAACC
AGTCGGGGGAAGAATGTGATGGTGGAGCCGCATCGGCATGAGGGTGTCTTCATTGTGCGAGGAAAGGAAGATGCAC
TGGTCACCAAGAACCTGGTCCCTGGGGAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTCGGAAGGAGATGACA
AAATTGAGTACCGAGCCTGGAACCCCTTCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCC
ACATCAAACCGGGGGCTAAGGTTCTCTACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCG
TTGGTCCGGATGGTCTAGTCTATGCAGTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACCTGGCCAAGA
AGAGGACCAACATCATTCTGTGATCGAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGG
ATGTGATCTTTGCTGATGTGGCCAGCCAGACCAGACCCGATTGTGGCCCTGAATGCCACACCTTCTGCGTA
ATGGAGGACACTTTGTGATTTCCATTAAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGCCT
CCGAAGTGAAAAAGATGCAACAGGAGAACATGAAGCCGAGGAGCAGTTGACCCTTGAGCCATATGAAAGAGACC
ATGCCGTGGTTCGTGGGAGGTACAGGCCACCCCCAAGGTGAAGAACTGAAGTTTCAGCGCTGTCAGGATTGCGAG
AGATGTGTGTTGATACTGTTGCACGTGTGTTTTTCTATTAAAAGACTCATCCGTCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 5437

MKPGFSPRGGGFGGRGGFGDRGGRGGRGGFGGGRGRGGGFRGRGRGGGGGGGGGGGGGRGGGGFHSGGNRGRGRG
GKRGNSGKNMVEPHRHEGVFICRGKEDALVTKNLVPGESVYGEKRVSISEGDDKIEYRAWNPFRSKLAAAILG
GVDQIHIKPGAKVLYLGAASGTTVSHVSDIVGPDGLVYAVEFSHRSGRDLINLAKKRTNIIPVIEDARHPHKYRM
LIAMVDVIFADVAQPDQTRIVALNAHTFLRNNGGHFVISIKANCIDSTASAEAVFASEVKKMQQENMKPQEQLTLE
PYERDHAVVVGVRPPPKVKN

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FIGURE 5438

CAACGGGGGCATCCACTACATCACCCCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA
ACGCCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTCACCGTGGACGGCGAGGC
TGTGGCCCTGCCTGTGGCTGTGGGCCGCGTGC GG GTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCCACCTCCTCATGTCCATCCCCAGCCCCCTTCCGTGGACGGCTCTG
TGGCCTCTGTGGGAACTTCAATGGCAACTGGAGTGACGACTTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT
GGAGACCTTCGGGGCTGCATGGCGGGCGCCCGGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG
CCCAGTGTGCTTGGCAGAGGAGACTGCACCCTATGAGAGCAACGAGGGCTGCGGGCAGCTCCGGAACCCCCAGGG
CCCCTTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA
AAAGGGTGACAAAGCCTTCCCTGTGCCGCAGCCTGGCAGCCTACACGGCGGCCTGTCAGGCAGCTGGCGTGGCCGT
GAAGCCCTGGAGGACAGACAGCTTCTGCCCGCTCCATTGCCCGCCCCACAGCCACTACTCCATCTGCACTCGCAC
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCCTCACGGGCTGCACCACCCGCTGTTTTGAGGGCTGTGAGTGCGA
CGACCGCTTCCCTGCTTTCCCAGGGTGTCTGCATCCCTGTCCAAGATTGTGGCTGCACCATAATGGCCGATACTT
GCCGGTAAACTCCTCCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCCTCAAGCTCTGGCCTGACATG
CCAGGCAGCTGGCTGCCCCACCAGGCCGTGTATGTGAGGTCAAGGCTGAAGCCCGGAACTGCTGGGCCACCCGTGG
TCTCTGTGTCTCTGTCTGTGGGTGCCAACCTCACACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCCTGGTGT
CTATGAGCTCTCTTCCCGCTGCCCAGGACTACAGAATACCATCCCCTGGTACCGTG TAGTTGCCGAAGTCCAGAT
CTGCCATGGCAAAACGGAGGCTGTGGGCCAGGTCCACATCTTCTTCCAGGATGGGATGGTGACGTTGACTCCAAA
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGGAGCCAATGGGAAGGTGGCTGT
GATTGTGAGCAATGACCATGCTGGGAAACTGTGTGGGGCTGTGGAAACTTTGACGGGGGACCAGACCAATGATTG
GCATGACTCCCAGGAGAAGCCAGCGATGGAGAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT
CATCCACCAGGAACGAAGATTTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT
GTGCTCCTACCCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC
T

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FIGURE 5439

GTCAACTTAGTGTAACAATGCTGTCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTTGGTTCCCTCCCTTTCTTAA
GCCCTTATTGGCTATCTTTCTTCTTTTAATATTTAAAGTTTTTAATCTTTAAATTTTAAATTTTAAACCATGCT
TGTTTAACTGCTGGTAAAATTCACGTCTTTCAGACTGTAATGCTTTCATGCCAAGTAAATGGTCTTGCCAGGCT
TCCAGCCTGTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCCTTCAGCAAGCCATAAGAAATTTCTACTCCT
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCCAGAAGAGACCTTTGCTCCTTAAGAA
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAA
CATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA
TCCTGCCCCACCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG
CAATCCAGCTTTCCCCCCAGGTGGGCCCCCTCATCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGGG
TCCCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGG
ACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCACAAA
GCACCACAAGTACCACAAGCATGACAAGCATTCTCCTCTTCTCCTCCTCCTCCTCCAGCAGTGATTCTGACTGAAT
ACAGGCCCTGGACCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG
GGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA
GGGGAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATATAGCTAATGAATTA
GGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTAAAATGTGATTTTT
TACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTCTATCTTTTTT
GTAATGTTGGCATACTTGGGGGATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTGTTGCTGCACTAACTGC
AAGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTA
GCCCAATATGCTGTCTCGGGTCCTATTCAAATAAAGTTATTTCTCCTGGTCT

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FIGURE 5440

GCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAACATGTGGAATCCCAATG
CCGGGCAGCCAGGGCCAAATCCATATCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGA
TGCCAACCGTTGGGTCCCTACCCTCCTCCATACCCACCGCCTGCCCCCTGGAATCCCTCCTGTGAATCCCTTGGCT
CCTGGCATGGTTGGACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATG
CACAAGCACCAAAAGCACCAAGTACCACAAGCATGACAAGCATTCTCCTCTTCCTCCTCCTCTTCCAGCAGT
GATTCTGACTGAATACAGGCCCTGGACCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATG
CCACGTTGTACTGGGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGA
GCCCTGAGTGGCTAGGGGAAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATA
TAGCTAATGAATTAGGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTT

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FIGURE 5441

GGCTTGGTCACTATGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCCTGTCCTTCCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAACCTATTATGTGCGCATCCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCCTCAGGCATTTTCGAGCTCTACAAGCAGATCGGCATC
GATCCCCCCCCGAGGCGTCTCATGTATGGCCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGCGGTGGCACAT
CACACAACAGCTGCATTTCATCCGGGTCTGTTGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAGACTATGTGGCCCGGCCAGATAAGATTTC
GGAGCTGATATCAACTCCATCTGTCTCAGGAGAGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCCTGGCC
AAGGACTTCGAGAAAGCATAAAGACTGTCATCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAGTGACCCCTTC
CCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAAACCTCATT
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5442

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEEYIKDEQKNLKKEFLHA
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYYVRILSTIDRELLKPNASVALHKHSNALVDVLPPEADSS
IMMLTSDQKPDVMYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTM LAKAVAHHTTA
AFIRVVGSEFVQKYLGEGRMVRDVFR LAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD
QNVNVKVIMATNRADTLDPALLRPGRLDRKIEFPLPDRRQKRLIFSTITSKMNLSEEVDLEDYVARPDKISGADI
NSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

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FIGURE 5443

ACTGTGCCCTGTCCACGGTGCCTCCTGCATGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC
GCTGCCACCATGAATGAGGTGTCTGTTCATCAAAGAAGGCTGGCTCCACAAGCGTGTTGAATACATCAAGACCTGG
AGGCCACGGTACTTCCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCGAGGCCCTGATCAG
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAATGCCAGCTGATGAAGACCGAGAGGCCCGGACCCAAACACC
TTTGTCTATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCCACGTGGATTCTCCAGACGAGAGGGAG
GAGTGGATGCGGGCCATCCAGATGGTCGCCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC
AAGTGTGGCTCCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTGAGCAAGGCACGGGGCTAAAGTG
ACCATGAATGACTTCGACTATCTCAAACCTTGGCAAGGGAACCTTTGGCAAAGTCATCCTGGTGCGGGAGAAG
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA
GTCACCGAGAGCCGGGTCTCCAGAACACCAGGCACCCGTTCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC
GACCGCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGGAGCGTGTCTTC
ACAGAGGAGCGGGCCCGGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGGAGTACCTGGCGCCTGAGGTGCTG
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGCTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC
CTGCCCTTCTACAACCAGGACCACGAGCGCCTCTTCGAGCTCATCCTCATGGAAGAGATCCGCTTCCCGCGCACG
CTCAGCCCCGAGGCCAAGTCCCTGCTTGCTGGGCTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGCCC
AGCGATGCCAAGGAGGTGATGGAGCACAGGTTCTTCCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC
CTGCCACCCCTCAAACCTCAGGTACGTCCGAGGTGACACAAGGTACTTCGATGATGAATTTACCGCCAGTCC
ATCACAATCACACCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG
TTCTCCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCACGCAGAGGACGCACGCTCGTGCCATCACCGCT
GGGTGGTTTTTTCCCT

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FIGURE 5444

CTCTTTATAATTTAGTTTCCATAGAAGTTATATGTGCATTTAAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCGGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGCTCCACAGGCCCCGCCCCCTCCTCCACCCTCGTTACGCTGTCCAGACAGAAGCTGGGGCCAGCGGAG
GTAGCAGCAGACGCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT
GGGCTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAACTGATGTACCAGGAGCTGAAGGTGCCTGCAG
AGGAGCCCGCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAAGCCCGCTGGGTCC
TGCTGGTCCCTCATTCTGGCGGTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT
TGCATCTCTTTGGGCCCCAACCAGCGCCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATT
CTGAGGGCCTGGACTTCCCCAATGCCTCCACGGGGAACCCTTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT
CTGCCCAGCAGGGTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAGGGCGTGAACGTCCGCATCGCTG
TGAGCAAGCCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGG
TGGACATGCAGAAGCTGACCCATGGCGTCTCTGCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG
GCAGTGCCAACATGGACTGGCGTTCCTGACCCAGGTCAAGGAGCTGGGCGTGGTTCATGTACAACTGCAGCTGCC
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCCTGGGCCAGGCAGGCAGCTCCATCCCATCAACTT
GGCCCCGGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG
CCTACCTGGCGAGTGCGCCCCCACCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG
TGGACAAATGCCCGGAGTTTCATCTACGTGCTGTCTGTAACCTACCTGCCCCACTCTGGAGTTCTCCCACCCTCACA
GGTTCTGGCCTGCCATTGACGATGGGCTGCGGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTTCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCC
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCAGGCTCGAATCCCATATGCCCGTGTCA
ACCACAACAAGTACATGGTGAAGTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCAACTACTTCACGG
AGACGGCGGGCACCTCGCTGCTGGTGACGCAGAATGGGAGGGCGGGCTGCGGAGCCAGCTGGAGGGCCATTTTCC
TGAGGGACTGGGACTCCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC
TCTGAGGCCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCC
TGTCCCCGCGCCCCCGCTTCTGTCTGCCCCATTGTGGTCTCTCAGGCTCTCTCCCCTGCTCTCCACCTCTACCT
CCACCCCCACCGGCCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCCAAAGAAATGG
GGGTGCATGCTGGGCCTGGCCCCCTGGCCCACCCCCACTTTCCAGGGCAAAAAGGGCCAGGGTTATAATAAGTA
AATAACTTGTCTGT

5907/6881
FIGURE 5445

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG
GTCCCCAGTCGGGGGCCCTCCCGGGGAAGTCATTCATCTGAATGTGGGAGGCAAGAGATTAGTACCTCTCGCCAG
ACTCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACC
GGAGCAATCTTCATCGATCAGGGACCATTACAGTCTTCGCCCCACCGTCACTCTACGTCTTGCGCATCACAAAGA
GTTGGATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCATGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTTTCG
TCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTGGAAACGTCTCTTCAATGGTTACCTGCCGCCACC
AGTGTTCACAGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGCCAGCCCCTGT
CCGACGGAGCAACACGATGCCCCCAACCTTGGAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAACCCC
TCCCTCACCTCAGGACAACCTGAGGAGCCGGGGATGGTGCGCTGGTGTGTGGACACCATAATTGGATCGCTGT
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG
CCTGGACTGGCCCATCGAACGACTGGCGCTCACAGCCCGGGTGCATGGTGGGGCTTTGGGTGAACATGACAAGAT
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGGCGGTGGCTCCGAGATAGGGGT
CTTTCATCTGGGGGTGCTGTGGAGGCCTTGTTCTTCGTCGGGAACCAAGCTCATTGCTACAAGCCACACAGGGCG
CATCGGGGTGTGGAATGCCGTACCAAGCACTGGCAGGTCCAGGAGGTGCAGCCCATCACCAGTTATGACGCGGC
AGGCTCCTTCCTCCTGCTGGGCTGCAACAACGGCTCCATTTACTACGTGGATGTGCAGAAGTTCCCTTGCGCAT
GAAAGACAACGACCTCCTTGTCAGCGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCAACGCCCTCAGTGTCTA
CCTCACCCCCAAGACCAGTGACAGTGGGAACCTGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGCGGGT
CATCGTGACAGCCCCGGAGACTGTGGGCTCGGGGCCTCAGCTCTTCCAGACCTTCACTGTGCACCGCAGCCCTGT
CACCAAGATCATGCTGTGCGAGAAGCACCTCATCTCAGTCTGTGCCGACAACAACCACGTGCGGACATGGTCTGT
GACTCGCTTCCGCGGCATGATTTCCACCCAGCCCGGCTCCACCCCACTCGCTTCCTTTAAGATCCTGGCTCTGGA
GTCCGCAGATGGGCATGGCGGCTGCAGTGTGGCAATGACATTGGCCCCCTACGGTGAGCGGGACGACCAGCAAGT
GTTTCATCCAGAAGGTGGTGCCAGTGCAGCCAGCTCTTCGTGCGTCTCTCATCTACTGGGCAGCGGGTGTGCTC
CGTGCGCTCCGTGGACGGCTCACCCACGACAGCCTTCACAGTGTGGAGTGCAGAGGGCTCCCGCGGCTCGGCTC
TCGGCCCCGGCGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGCCATGTGGGACCTAACCACCGCCATGGA
CGGCCTCGGCCAGGCCCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC
CCCGCCGGCTCCTTCAGCTCCCTCATGGGGCTGTCTCCCCAGCCCCCTACCCCGCATCTCCCTCACCAGCCTCCA
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCGTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCCGGCGCG
TGGTGGGGGCAGCTTTGTGGAACGCTGCCAGGAACCTGGTGCGGAGTGGGCCAGACCTCCGACGGCCACCCACACC
AGCCCCGTGGCCCTCCAGCGGTCTCGGCACTCCCCTCACACCTCCCAAGATGAAGCTCAATGAACTTCCTTTTG
AACAACGCAGCTGCCATGATGCCTTGGGATGCCCTGGTCTGGGGGACTCAGGTGCCTCCCTGATTCTGTGGGA
ACCCCGGGTTACGGGCCAGGGCCTCCTTGGAATAAATGGTTATTGTTACTAGGTCCCCACCTTCCCTCTTTCTG
GAAGCCAAAGTCACCTCCCCAATAAAGTCCTCACTGCC

5908/6881
FIGURE 5446A

CGTTGCTGTTTGTGCTGCTGCCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCCCAAAAGTGTGCAGGCCCCCAGCGGTGCCTGAACCCAGTGCCTG
CAGTGCCCCAGTCCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAGG
CCAGAGCTCTACTGAAGCGGCGGCGGCCCGGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCCCCACAGC
GTGCCCCCGCTGGCAAGGCCCCGGTCTGTGTCCCTTGATCTGTACAAATGGCGGTGTGTGCGTGAAGCCTGACC
GCTGCCTCTGTCCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGCCCGCCCCCGGCCCGG
CTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGCGACGACGAGCAGCGCGTGGCAT
CTATGGTGAGCGTCCACGTGGAGCACCCGCAGGAGGCGTCCGGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCC
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGCGGGCGGAGGCGGCAGCGCCCTACA
CGGTGTTGGCACAGAGCGCGCCGCGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTCGGGAGC
TGCGCGGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCAGGAGGTCTGCTGCCGAGGGGCGGGCTTGG
CCTGGGGCGTTACGACTGTGAGCTGTGCTCCGAGCGCTGGGGAACTCCGAAAGAGTGAGCGCCCCAGATGGAC
CTTGTCCAACCGGCTTTGAAAGAGTTAATGGGTCTGCGAAGATGTGGATGAGTGCGCGACTGGCGGGCGCTGCC
AGCACGGCGAGTGTGCAAACACGCGCGGGCGGTACACGTGTGTGTGCCCCGACGGCTTTCTGCTCGACTCGTCCC
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGGCCCTGCTTCCGCGTGCTCCGCGACGGCGGGCT
GTTGCGTGGCCATTCTGCGGAACATCACTAAACAGATCTGCTGCTGCAGCCGCGTAGGCAAGGCCTGGGGCCGGG
GCTGCCAGCTCTGCCACCCTTCGGCTCAGAGGGTTTCCGGGAGATCTGCCCGGCTGGTCTGTTTACCACTACT
CGGCCTCCGACCTCCGCTACAACACCAGACCCCTGGGCCAGGAGCCACCCCGAGTGTCACTCAGCCAGCCTCGTA
CCCTGCCAGCCACCTCTCGGCCATCTGCAGGCTTTCTGCCACCCATCGCCTGGAGCCCCGGCCTGAACCCCGGC
CCGATCCCCGGCCCCGGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTGAGATTCTGAATCAG
GTCCCTCCTCCGGCATGTGTGAGCGCAACCCCCAGGTCTGCGGGCCAGGACGCTGCATTTCCCGGCCAGCGGCT
ACACCTGCGCTTGCGACTCTGGCTTCCGGCTCAGCCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTGCCC
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAACTCACCAGGCAGCTTCCGCTGCGTGTGCGGCCCGGGCT
TCCGAGCCGGCCCCACGGGCTGCGGAATGCCTGGATGTGGACGAGTGCCACCGCGTGCCGCCCGCGTGTGACCTCG
GGCGCTGCGGAGAACACGCCAGGCAGCTTCTGTGCGTGTGCCCCGCGGGGTACCAGGCTGCACCGCACGGAGCCA
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCCAGGCCTGTGTGGCCGAGGGGCCTGCAAGAACCTGCCTGGCT
CTTTCGCTGTGTTTGCCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC
CGCCGCCCTGTGGGCCCCGGCCGCTGTGACAACACGGCAGGCTCCTTTCAGTGTGCCTGCCCTGCTGGCTTCCGCT
CCCGAGGGCCCCGGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCGAAGCCCCCACCCTGCACCTACGGCCGGT
GTGAGAACACAGAAGGCAGCTTCCAGTGTGTCTGCCCCATGGGCTTCCAACCCAACACTGCTGGCTCCGAGTGCG
AGGATGTGGATGAGTGTGAGAACCACCTCGCATGCCCTGGGCAGGAGTGTGTGAACCTGCCCCGGCTCCTTCCAGT
GCAGGACCTGTCTTCTGGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCCGGGTGCCC
CTCCCTGTGGTCCCCACGGCCACTGCACTAACACCGAAGGCTCCTTCCGCTGCAGCTGCGCGCCAGGCTACCGGG
CGCCGTGCGGTGCGGCCCGGGCCCTGCGCAGACGTGAACGAGTGCCCTGGAGGGCGATTTCTGCTTCCCTCACGGCG
AGTGCCCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCTGGCTACCGACCCGGACCCCGCGGAGCCTCTT
GCCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTTGCCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG
AGTGCATCTGTCTCCGGGACACCGCGCTGGCCCCGACCTCGCCTCCTGCCTCGACGTGGACGAATGTGCGGAGC
GAGGCCAGCCCTGTGCGGGTGCAGCGCTGTGAGAACTCTCCCGGCTCCTACCGCTGTGTCCGGGACTGCGATC
CTGGGTACCACGCGGGCCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCAGATTGTG
GAGCCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACCAGCCTGTGACCCCTGGCTATCAGCCCACGC
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAAATG
TCGAAGGCTCCTTCCCTGTGTCTGCCCCAACAGCCCCGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCC
CACGAACCTTGTGTGGACGTTCCAGGCTCGCAGCCCCAGGCACCTGCTAGCCCCGTTCTGCCCGCCAGGCCAC
CTCCGCCACCCCTGCCCGCCGACCCAGCACACCTAGGCAGGGCCCTGTGGGGAGTGGGCGCGGGAGTGCTACT
TTGACACAGCGGCCCGGATGCATGTGACAACATCCTGGCTCGGAATGTGACATGGCAGGAGTGCTGTGTACTG
TGGGTGAGGGCTGGGGCAGCGGCTGCCGCATCCAGCAGTGCCCGGGCACCGAGACAGCTGAGTACCAGTCATTGT
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGTGAGCTCT
TCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTGAACACGGCCCCGGGCTACTCATGCTATTGCAGCAACGGCT

5909/6881
FIGURE 5446B

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTGTGAGGGCG
GCCGCTGTGTCAACACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCACTGGTGCTGGATGGCTCGCAGCGCC
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG
TGTGCAGCCACCCCTCGGCTGGACCGTCAGGCCACCTACACAGAGTGCTGCTGCCTGTATGGAGAGGCCTGGGGCA
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCCCCGCAT
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCTACGAGTACGGCCCCAGACTTAGGTCCACCTTACCAGGGCC
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCCTACGACCCCTACCCACCGCCACCTGGGCCCTTCG
CCCGCCGGGAGGCTCCTTATGGGGCACCCCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCCCTATGGCG
AATCTGAGGCTCCTGCGCCACCTGGCCCCGGGCACCCGCTGGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC
CAGAGCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCGCGTCCCCGAAGGCTTCACCTGCCGTTGCT
TCGACGGCTACCGCCTGGACATGACCCGCATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT
CCCCGCTGTGCGTCAACGCGCGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTGCGAC
CCACGCACCAGCCGCACCACTGTGCGCCCGCACGGCCCCGGGCCTGAGCCCTGGCACC CGCTGGCCGCCACCCG
CGCCCCGCACTCGGGGCCCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCCGCCTGGA
CCTGGAGAAGGGACCTACGGACGCCTGGAAGCTGCGACGCCCTGCACTGCTCCCGCCTCCACCAGCGCCTCCCAC
TGATGTCGTGGTCCCGGGCCTGGCCCAGGGGCCCTTTACATGCCCTCTCCCTTTTATAAAATTTTCATTAAAA
ACCACCTATTTTCT

5910/6881
FIGURE 5447

GTGGTTATCGCGGCGCCACCGGCCTCTGATCTCTGAGTCTTCTCCAACCCACAGACGTTTTTTGTTGCTCTGGT
TCCAGGACCTTCTCCACAAGTAGGCCATTTTCCCTGCCAGGTGTCTTTTTGACCTCTTGACCTCTGACTCAAAG
GTCAGCTCAAAGGTTCCGAAGTCCGGCCTGGGATGTGAGGGGGTACTGAACCTAAGTTCTCCGAATCTTTAGCCC
TGGGTCCCTAAGTCGCATCCTTAAGGCACCTCACTCTAGATCTGAGCCTTCATATCCCAAAGTCACTCATGAGTT
TCCACATCCAGCCCCAAAGAATGAGTTAACTCCTACTAACTCTCCACCTAAGACTCCCGAGGTAACCCAACCGGT
ACCACAGATCCGGTTCCGGATTTAAGGACCCACCCCTGTAAACCGTCAGGTGCCTTATGACTTGAGTCAGCCTCG
CAATTCCTGCTCCCGTGGTTTCAAATATTAGCCCTGGTCTTTTACACCCACTGCTCAGTCCCCAGATTCTGGAA
CTCAGCTCTTAAACCTTTAAAATCTCCATCCCTGAGACCGTTCTCCGTTGGAGGATCCTTCCCTCCCCGCTTTCT
GAACCTCTCAACACCTCCTGTAGACCCCAAAATGACTTCTCCATGCTCTCCTCCCCCTAAAACCACCAATTTCTCC
TCCAAAAACCCCTGTACCCCAAGCCAGCAGCATTCATCTCCTCCTTACCCCCAAGTCCCCTGGACTTTTCAGC
TTTACCATCCCCCTCCCTGGAGTCAGCAGACCCCTGTTCCCCCACCCTGCTCCCTCCTCCACCCGCTGCCAC
AGGGCCTGCTCCCCGTCATGTCTTCGGCCTGGAGAAGAGCCAGCTCCTGAAGGAGGCCTTTGATAAGGCCGGCCC
GGTCCCCAAGGGCAGAGAAGATGTGAAGAGGCTTCTGAAACTACACAAGGACCGGTTCCGAGGTGACCTGCGGTG
GATCCTCTTCTGTGTCAGACCTGCCGTCCCTCATCCAAGAAGGCCCTCAATGCGGGCTGGTGGCCTTGTGGATGGC
AGGTACTCTCCTGTGCCCCCAGTGGCGTCCCCCTGGAGAGACTCATACGGGTGGCCACGGAAAGAGGCTACAC
GGCCCAGGGAGAGATGTTCTCAGCACCAGCTACGACGAGGACTTCAACCATGAGCCGTGTCAGAGGAAGGGCCAC
AAGGCACACTGGGCGGTGAGTGCAGGGGTCTGCTGGGTGTTGGGCTGTGCCAGTCTCGGCTACACTGAGGAC
CCTGAGCTGCCGGGCTGTTCCACCCAGTGTGGGCACGCCCTGCCAACCACCATCCCTGCCAGAGGAGGGCTCC
CCGGGAGCTGTCTACCTGCTGTCCAAGCAGGGCAAGAGTTGGCACTATCAGCTGTGGGACTACGACCAGGTCCGG
GAGAGCAACCTGCAGCTGACGGACTTCTCGCCCTCACGGGCCACTGACGGCCGGGTGTACGTGGTGGCCGTGGGT
GGGGTACGGGCTGGCCTCTGTGGCCAGGCCCTGCTCCTCACACCACAGGACTGCAGCCATTAGCTGCGGCTGCGG
TCTCAGGCTGCAGCCTAGCTCGTTTTTAAAGCCCATCTGGGAGCAGTTACCTGTGCCAGCCCCTCTACCTGTGTTA
GCAGATCTGGCAACCCCTGTAAGGGGGGTGCTAGATGGACCCGATTTGACAGATGGCAAGACTGAGGCCTGGAGAA
GTGGAATCACTGGCCTGAGGTCACATGACTAGCACATGGCAAGATGGAGTCTCGTTCTGTCTCAGGCTGGAGT
GCGGTGGCGTGATCTCAGCTCACTCCAGCCTCCACTTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCCCCAAG
TAACTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTTTGTATTTTGTAGTAGAGACGGGGCTTTGCCAT
GTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGAGTAATCCACCCGCTCGGCCCTCCCAAAGTGTGGGATTACA
GGTGTGAGCCACTGAGCCCGGCCACAGTGCAGTATTTCTAACCAGTGATCAGGGTAAAGAGGATGCGTGTCCACC
ATCCCAGCCCTGATCAGCCTGTCTGTGCATCCCCATCCCAGCCAGGGCTGGAGCAGCCTTGCTCACCCTGTG
TCCCCTGCATTGTAACACATCCAGGCACAAGAATAGCCGCCAGTGACTGCCAAGTGAGTGAACCAGCCTGCTTG
GAGCCTGCCTCTTTCCCAAAGTGTCTATTATCCTGTTACCCACCCAGCCACGTGTCCAATACACTCCAGATG
CAAAATAAAAAGCTCTACGACA

5911/6881
FIGURE 5448

GAATTCCTGACTTCCTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTGGAGAAACCCAGG
GCTAAAGTCACGTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCCATGGCAGTTCCCGAGACCCGCCCTA
ACCACACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAAGTCCCTGTACGCCATCT
TCTCCCAGTTTGGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGGCCAGGCCTTTGTCTATCT
TCAAGGAGGTCAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTA
TCCAGTATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGG
AGAAGAGGAAGCCCAAGAGCCAGGAGACCCCGGCCACCAAGAAGGCTGTGCAAGGCGGGGGAGCCACCCCGTGG
TGGGGGCTGTCCAGGGGCCTGTCCCGGGCATGCCGCCGATGACTCAGGCGCCCCGCATTATGCACCACATGCCGG
GCCAGCCGCCCTACATGCCGCCCCCTGGTATGATCCCCCGCCAGGCCTTGACCTGGCCAGATCCCACCAGGGG
CCATGCCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACA
TCTTGTTCTCACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCCTGGCT
TCAAGGAGGTCCGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAAATGAGGTACAGGCAGGGG
CAGCTCGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAGTAGC
ACCTTTTCCCCCATGCCTGCCCCCTTCCCTGTTCTGGGGCCACCCCTTTCCCCCTTGGCTCAGCCCCCTGAAGG
TAAGTCCCCCTTGGGGGCCTTCTTGGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCT
GTCCCCAGACATTGCACCTGGCGCTGTTAGGCCGGAATTAAAGTGGCTTTTGTAGGTTTGGTTTTTCACAAAAA
AAGGAATTC

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FIGURE 5449

MAVPETRPNHTIYINNLEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGF
PFYDKPMRIQYAKTDSIIAKMKGTIVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPPMTQA
PRIMHHMPGQPPYMPPPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQPLSENPPNHILFTNLPEETNELMLS
MLFNQFFGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

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FIGURE 5450

CGGACGAGGCACGAGTGAGGGGGGAGGCGGTGGCGGCGGCCATTTTGAGCCGCTGCCGCCATTGGAGTGGGCCCC
CCCCCTTTCCCCCTTCGCCTCCTGACAGGAAAGGTTTAAGGGGGACAGAGCCCTGGGAGGCCGGGCGGGGCTCGG
GGGCCACCCCGGGGGCCCGGGCCATGGATGTGCGCCGTCTGAAGGTGAACGAACTTCGCGAGGAGCTGCAGCGCC
GCGGCCTGGACACTCGAGGCCCTCAAGGCCGAGCTTGCTGAGCGGCTGCAGGCGGCGTTGGAGGCCGAGGAGCCTG
ACGACGAGCGGGAGCTCGACGCCGACGACGAACCGGGGCGACCCGGGCACATCAACGAGGAGGTGAGACCGAGG
GGGGCTCCGAGCTGGAGGGGACCGCGCAGCCACCGCCGCGCCGGGCTGCAGCCGCACGCGGAGCCCGGCGGCTACT
CGGGGCCGGACGGACATTATGCCATGGACAATATTACCAGGCAGAACCAATTCTACGATACCCAAGTCATCAAAC
AAGAAAACGAGTCAGGCTACGAGAGGAGACCCTGGAAATGGAGCAGCAGCAGGCTATCGTCCAGAAATGAAGA
CAGAGATGAAGCAAGGAGCACCCACCAGCTTCCTCCCGCTGAAGCTTCTCAACTCAAGCCAGACAGGCAGCAAT
TCCAGAGTCGAAAAGAGGCCCTTATGAAGAAAACCGGGGACGGGGGTACTTTGAGCACCGAGAGGATAGGAGGGGCC
GCTCTCCTCAGCCTCCTGCTGAAGAGGATGAAGATGACTTTGATGATACCCTTGTGTCTATTGACACCTATAACT
GCGACCTCCACTTCAAGGTGGCCCGAGATCGGAGTAGTGGCTATCCGCTCACAATTGAGGGCTTTGCATACCTGT
GGTCAGGAGCCCGTGCCAGCTATGGGGTCAGAAGGGGCCGTGTATGCTTCGAGATGAAGATCAATGAGGAAATCT
CCGTGAAGCACCTTCCGTCTACAGAGCCTGACCCCCACGTGGTCCGTATCGGCTGGTCCCTGGACTCCTGCAGCA
CCCAGCTAGGCGAAGAGCCTTTCTCCTATGGCTATGGAGGCCTGGGAAGAAGTCCACCAATAGCCGGTTTGA
ACTACGGAGACAAGTTTGCAGAGAACGATGTGATTGGCTGCTTTGCGGATTTTGAATGTGGAAATGACGTGGAAC
TGTCTTTTACCAAGAATGAAAGTGGATGGGCATTGCTTTCCGAATCCAGAAGGAAGCCTTGGGGGGTCAGGCC
TCTATCCTCATGTCTTGGTGAAGAATTGCGCAGTGGAGTTCAACTTCGGACAGAGAGCAGAGCCCTACTGTTCTG
TCTCCCGGGGTTTACCTTCATCCAGCACCTTCCCTTAGTGAGCGTATCCGGGGCACCCTTGGACCAAAGAGCA
AGGCAGAATGTGAGATTCTGATGATGGTGGGCCTGCCTGCTGCTGGCAAGACCACATGGGCCATCAAACATGCAG
CCTCCAACCCTTCCAAGAAGTACAACATCCTGGGTACCAATGCCATCATGGATAAGATGCGGGTGATGGGCCTAC
GCCGCGAGCGGAACTATGCTGGCCGCTGGGATGTCTGATCCAGCAGGCCACCCAGTGCTCAACCGCCTCATCC
AGATTGCTGCCCGCAAGAAACGCAACTATATCCTAGATCAGACAAATGTTTATGGGTCAGCCCAGAGACGAAAA
TGAGACCATTGGAAGGCTTCCAGCGCAAAGCTATTGTAATTTGTCCCACTGACGAGGACCTAAAAGACCGAACAA
TAAAGCGAACCGACGAGGAAGGGAAGGATGTCCAGATCATGCGGTCTTAGAAATGAAAGCCAACTTCACGTTGC
CAGATGTTGGGGACTTCTGGATGAGGTTCTGTTTATTGAGCTGCAGCGGGAGGAAGCGGACAAGCTAGTGAGGC
AGTACAACGAGGAAGGCCGCAAGGCTGGGCCACCCCTGAAAAGCGCTTTGACAACCGAGGTGGTGGTGGCTTCC
GGGGCCGCGGGGGTGGTGGTGGCTTCCAGCGCTATGAAAACCGAGGACCCCTGGAGGCAACCGTGGCGGCTTCC
AGAACCGAGGGGGAGGCAGCGGTGGAGGAGGCAACTACCGAGGAGGTTTCAACCGCAGCGGAGGTGGTGGCTATA
GCCAGAACCCTGGGGTAACAACAACCGGGATAACAACAACCTCCAACAACAGAGGCAGCTACAACCGGGCTCCCC
AGCAACAGCCGCCACCACAGCAGCCTCCGCCACCACAGCCACCACCCAGCAGCCACCACCAGCTACA
GCCCTGCTCGGAACCCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGCCAATACCA
GCACCCACCACCTCAGCAGCTACAGCCCTCCACAGCCGAGTTACAGCCAGCCACCCTACAACCAGGGAGGTTACA
GCCAGGGCTACACAGCCCCACCGCCTCCACCTCCACCACCACCTGCCTACAACCTATGGGAGCTACGGCGGTTACA
ACCCGGCCCCCTATACCCACCGCCACCCCTTGCACAGACCTACCTCAGCCCAGCTATAACCAGTATCAGC
AGTATGCCCAGCAGTGGAACCAGTACTATCAGAACCAGGGCCAGTGGCCGCCATACTACGGGAACCTACGACTACG
GGAGCTACTCCGGGAACACACAGGGTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCC
TGCCGGCTTCCCTCCACCAGCGCTGCCTCGGCCCTCCTCTGCCCCGCCAGATCCCGTGGTGCTGGGGATGGGG
TCATCCCAGGGCTGCCTCCCTCCAGCCACTGCCTCCCTCTGAGGGGCTTCCCTCCCTCCATAGGGCCAGGCA
TTTTTTTCTGGATTCAAACAGGCAACAATGACCTTTTATTTTCTGTTTGTCCCCACCTCCCCAGCCTTCCACCTC
CTGTTCTTCTTACCTTCTTCTTTTGAATAAATCCCCACCTCCCTTGATCATACAGTGAGGCTACAGTGAC
TGAGGGGAGAAATCCCTCCTGTTTACTCTCCCAACCCTGCTCCAGCCCTCAGCTTCCAGACCCCTCATGCAGTT
GGTTGTAAATCTCCAGGAGCTGTTTTACTGTCTACTTTTTCAGGATTAATAAAAAAAAAATCAAACTTAAAAA
AAAAGTTTAAAAAGCAAAATGGGGAGGGGAGGAAGCAGTGACTTTTTTTTGGTAATTATGCGCTTTTTTTTAAAT
TTTAGAATTTGTCTTTTACTGTGGTGGGCTGTTGATATTTTATCAAGATAAGCATTCTTTCTTGAGTTTACG
GTGACTGAGGAAGAGCCACAAAACAAAACACAACAAACCAAAACC

5914/6881
FIGURE 5451

GCTTGGGGCGACGCGGTGCACCCGGGACCCGGGAACATTCTCAGGCGAAAGTGCTCTTTCGCTGCGTGGGGCCGAGAGT
 TAGTGTGCGGGGGCCCGCCGGGCGGTTGAAAAGTCCGAGAGAATCAGGATGGAGGCGCGTGGCGACGGCGACGGCGG
 CGAAGGAACCCGATAAAGGGCTGCATAGAGCCTGGACCTGGGCACTGGGGTGAGCTGAGCCGGACACCACTCCCAT
 CTAACCCCCAGGACAAAGTGGAAGCAGCTGAGGCAACACCAGTGGCCCTGGACAGTGACACCTCCGGGGCTGAAA
 ATGCAGCAGTGAGTGCTATGCTGCACGCTGTAGCCGCCAGCCGCTGCCTGTTTGCAGCCAGCAGAGGGTGAAC
 CCGACTTGACAGAGCATGAGAAAGTGGCCATCCTGGCCCAGCTGTACCACGAGAAGCCACTGGTGTTCCTGGAGC
 GCTTCCGCACAGGCCTCCGTGAGGAGCATCTGGCCTGCTTTGGCCACGTGCGTGGCGACCACCGTGCAGACTTCT
 ACTGTGCTGAGGTGGCCCGGACGGGCACTGCCCGCCCCGACCCCTGCGTACCCGCTGCGTAACCGGCGCTATG
 CTGCCCTGCGAGAGCTGATCCAAGGGGGCGAGTACTTCAGTGATGAGCAGATGCGGTTCCGGGCCCCCTGCTAT
 ATGAGCAGTACATCGGGCAGTATCTCACCAGGAGGAGCTCAGTGCCCGCACCCCAACCCACCAGCCCCCAAGC
 CCGGGTCCCCCGGGAGACCTGCTTGCCCGCTCTCCAATTGCTGCTCCAGTCTACGAGGAGCGGGAGCTACAGC
 AGCGTCTGCTCCAACAGCAGGAGGAGGAGGAGGCTGCTTGGAGGAAGAGGAAGAGGAGGAGGACAGTGACGAGG
 AAGACCAGAGGTCAGGCAAGGACTCGGAGGCCTGGGTTCCTGACTCGGAGGAGAGGCTGATCCTGCGAGAGGAGT
 TCACCAGCCGCATGCACCAGCGCTTCCTAGATGGCAAGGACGGGGACTTTGACTACAGCACAGTAGACGACAACC
 CCGACTTCGACAACCTCGACATCGTGGCACGGGATGAGGAGGAGAGGTACTTTGATGAGGAAGAACCTGAGGATG
 CGCCAGCCCAGAGCTGGATGGGGACTGATGGCCGCCACCCTTCCCACCGCTGCCCATCCCCATCCCCAACAA
 GGCAGCTGATTCCAGGCCTGCTCAGTGACCCTTTCTCTAGGGGGACATCAGGGCAGTGCCCCACAACCCACACAC
 ACCACCATCTCACTGGGTCTAGTCTCATCTCAGACAACCCCCACCCCCACTGTTTCTGGGGTTCCCTTTTCTCATC
 TCTCCCACCTGTCTCCTGCCCTGTCTTTCTTGGTGTCTGTCTGGGCTTCTTTCTGTCTCTTTCTGTCTTTCTG
 TCTCTCTCCCTACCCCGCTCCCTCTTTCCAGTGCTCTGGCTGGCTGTCTCTCCCTTTCTCCCCCTCTCTCTCTG
 CCTTAGGCTCTGTCTCCACCGCAGGGGCCAAGGTGAAAAGTCTCCCTTGCCGGAGGCCAGCTGGCAGGGCCTTT
 CGTGGCTGGAAGTGGCCAGTTTGGTTCCGGTGCTGACCCCTAGGCCCCAGCGCAGCTGCCTCCCCTGCTGTCTGT
 TCCCCCTCTCTGTTTATGTCTGCGCTGTGTCTCACACTCAGAGCCTCCTTGCTTCTGTTAGGTTCCCATCTCTC
 CTCTGCTCACTCTGGGCTCTTCTTTCTACTTGTACATTTCCACCTCTCTAGGCCTCTGCTCTCACTGTCCCT
 CTCTGTCTGTCTCTCAGCCTTTATCTCTGGGTTTTGATCCCCCACTCCAGGCTCTGGGCCCCCTTCTTCCCCCTC
 CCTCAAACCTGGCTGCTATAGGCAGCAGAACCTGACCACTGAGTAATACAGCCCCAGGGGAGGGAGGAGACCCC
 AGGCAGGGAGGATGGGGGCGAGCTCTTCTCTCCCCAGGACCCAGGCTGTGGATCACGGGGCCTGCCAGCTTGAG
 TGTAGAGGGAGGGGGGACTCTACCCTTCTCAGCCCCACCAGCCCCCTCTGCCCAACCACAATTTTCCCTTCTC
 CGCCTTCTCTCCCCCTCTCTGTTTACACTCCCCAAATGCGCACAGGCTGTTATCATGGGTCTGAGTCATCCAC
 ACACAGCCTGCCCCAGCGTCCCTGCCCCAGCTGGCCGAGGGCCCCGCCCATGGAGCCCCCTGCCGCCCTGGGC
 TAATGGGAGCCAGATGGCCGCCCTGGTGA CTAGCCACCGGGCCTGTGGGAACCCAGGCGTCCCGCCTTCCCATG
 CCCCCACACCCGGCTCCTGCTCCCCCAGCAGACACACAGGAGGGCCTGGCCACTGTTGAGGGGGCACACAGGGC
 AAGGGTACCAAGTCTGGGGCCTAGGGACTCCTCATGCCTCTGAGATGGAATGGTGGTATCCTGCCGTGGCCAAGC
 CTGAAGGACCTCAAAGTGCCTCCTGGAGTCCACGGTTCTTGACCTCCGAGCCTCAGCTATGCCCTCTGGGTCA
 ACCAGAATTAGAGCCAGACAGGAAAAGTGAGAGCTGGATGGAGGCAGACAAGATGCTCAGAGCGACTATTAAAGA
 ACGAAAGCCTCTGCTACGGAGCGCTTCTGTCTCTGTCTAGGCCCGAGCGAAGTGCCTGACACCGGGTTGGATCCT
 CAGATGGCCCCATGAACTAGTGAAGTGGGTCAAAGGAGGCCTGGAAAGATGTTGCTTCTCAAGGCCACTCGGCC
 ATCAGAGGCAGAAAATGAAACAGGAACCCAGGCCTAGAATCACAAAGGTCTAGAAACCACTTGGCTGTCTGGCCT
 CTCAGGTGTCTAGGGCCATCCAGAGTGAGACAGCATTGGAGGGACAAGTGTGCATGCAGATGTCTCAGACGGGAA
 GGTTTGAGAAGGGTCAGATGGTAGGCGGGCCTAACAAAGGGCTCCGTGCTAGCCACTGTCCCGCACACAGACAGGA
 TCAGGTCTCTTGATATGGAGATCAGTCCCCAAATCACTGAATTGTCCAGCAGTGCTATGCCCTAGGTACTACC
 AATATCACTCCTCTATTTCCAGAGGAGGAAGCAGCAGCTAGACTCCAGGACCTTGGGGTCATATCTCTCAGAAA
 GCCAAGAGTGCAGGATGAGAGCTGTCTGTCTCTTACCTGCCTGTATTTGTGCCCCATTTTTTAAAGAGCAGAGGGC
 CTGGGCCACAGGAAAAGGTATCAGCCCTTGGTGATAGGCACATTTTTTACCAGTCTATCATTTGGTTCATTAAATTT
 GTTTACAATATACTTTGCTATAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5452

MEAVATATAAKEPDKGCIEPGPGHWGELSRTPVPSKPODKVEAAEATPVALDSDTSGAENAAVSAM LHAVAASRL
PVC SQQGE PDLTEHEKVAILAQLYHEKPLVFLERFRTGLREEHLACFGHV RGDHRA DFYCAEVARQGTARPRTL
RTRLRNRRYAALRELIQGGEYFSDEQMRFRAPLLYEQYIGQYLTQEELSARTPTHQPPKPGSPGR PACPLSNLLL
QSYEERELQQRLLQQQEEEEACLEEEEEEDSDEEDQRSGKDSEAWVPDSEERLILREEFTSRMHQRFLDGKDGD
FDYSTVDDNPDFDNLDIVARDEEERYFDEEEPEDAPSPELDGD

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FIGURE 5453

ACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGGCCGGGGGCAGGGGGGACGCCCCGTCCGGGGCACCCC
CCCCGGCTCTGAGCCGCCCGCGGGGCCGGCCTCGGCCCGGAGCGGAGGAAGGAGTCGCCGAGGAGCAGCCTGAGGC
CCCAGAGTCTGAGACGAGCCGCCGCCGCCCGCCACTGCGGGGAGGAGGGGGAGGAGGAGCGGGAGGAGGGGACG
AGCTGGTTCGGGAGAAGAGGAAAAAACTTTTGAGACTTTTCCGTTGCCGCTGGGAGCCGGAGGCGCGGGGACCTC
TTGGCGGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCCAGACCGCCTCCCTTTGCCGCGGGGACGCTT
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCCATTCCGGACCAGCCCTCGGGAGTCGCCGACCCG
GCCTCCCGCAAAGACTTTTCCCCAGACCTCGGGCGCACCCCTGACGCGCCCTTCATCCCCGGCTGTCTCCTG
AGCCCCCGCGCATCCTAGACCCCTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCCTATTCA
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCGGTCCA
AGCCTCCCTCCACCACTGCGCCCTTCTCCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCCTACCTTTTGCCGG
GAGACCCCCAGCCCTGCAAGGGCGGGGCTCCCCACCACACCAGCCCTGTTCCGCTCTCGGCAGTGCCGGGGG
GCGCCGCTCCCCCATGCCGCCCTCCGGGCTGCGGCTGCTGCCGCTGCTGCTACCGCTGCTGTGGCTACTGGTGC
TGACGCTTGGCCGGCCGGCCGCGGGACTATCCACCTGCAAGACTATCGACATGGAGCTGGTGAAGCGGAAGCGCA
TCGAGGCCATCCGCGGCCAGATCCTGTCCAAGCTGCGGCTCGCCAGCCCCCGAGCCAGGGGGAGGTGCCGCCCCG
GCCCCGCTGCCCCGAGGCCGTGCTCGCCCTGTACAACAGCACCCGCGACCGGGTGGCCGGGGAGAGTGCGAACC
AGCCCCGAGCCTGAGGCCGACTACTACGCCAAGGAGGTACCCGCGTGCTAATGGTGGAAACCCACAACGAAATCT
ATGACAAGTTCAAGCAGAGTACACACAGCATATATATGTTCTTCAACACATCAGAGCTCCGAGAAGCGGTACCTG
AACCCGTGTTGCTCTCCCGGGCAGAGCTGCGTCTGCTGAGGCTCAAGTTAAAAGTGGAGCAGCAGCTGGAGCTGT
ACCAGAAATACAGCAACAATTCTGGCGATACCTCAGCAACCGGCTGCTGGCACCCAGCGACTCGCCAGAGTGGT
TATCTTTTGATGTACCGGAGTTGTGCGGCAGTGGTTGAGCCGTGGAGGGGAAATTGAGGGCTTTTCGCTTAGCG
CCCACTGCTCCTGTGACAGCAGGGATAACACACTGCAAGTGGACATCAACGGGTTCACTACCGGCCCGGAGGTG
ACCTGGCCACCATTATGCGATGAACCGGCCCTTCTGCTTCTCATGGCCACCCGCTGGAGAGGGCCAGCATC
TGCAAAGCTCCCGGCACCGCCGAGCCCTGGACACCAACTATTGCTTCAGCTCCACGGAGAAGAAGTGTGCGTGC
GGCAGCTGTACATTGACTTCCGCAAGGACCTCGGCTGGAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACT
TCTGCCTCGGGCCCTGCCCCTACATTTGGAGCCTGGACACGCAGTACAGCAAGGTCCTGGCCCTGTACAACCAGC
ATAACCCGGGCGCCTCGGCGGCGCCGTGCTGCGTGCCGCAGGCGCTGGAGCCGCTGCCCATCGTGTACTACGTGG
GCCGCAAGCCCAAGGTGGAGCAGCTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGCTGAGGTCCCGCCCCGC
CCCGCCCCGCCCCGGCAGGCCCGGCCCAACCCGCCCCGCCCCGCTGCCTTGCCCATGGGGCTGTATTTAAGG
ACACCCGTGCCCAAGCCCACCTGGGGCCCCATTAAAGATGGAGAGAGGACTGCGGATCTCTGTGTATTGGGCG
CCTGCCTGGGGTCTCCATCCCTGACGTTCCCCCACTCCCACTCCCTCTCTCTCCCTCTCTGCCTCCTCCTGCCTG
TCTGCACTATTCTTTGCCCGCATCAAGGCACAGGGGACCAGTGGGGAACACTACTGTAGTTAGATCTATTTAT
TGAGCACCTTGGGCACTGTTGAAGTGCCTTACATTAATGAACTCATTAGTCACCATAGCAACACTCTGAGATGC
AGGGACTCTGATAACACCCATTTTAAAGGTGAGGAAACAAGCCAGAGAGGTTAAGGGAGGAGTTCTGCCCACC
AGGAACCTGCTTTAGTGGGGGATAGTGAAGAAGACAATAAAAGATAGTAGTTCAGGCCAGGCGGGGTGGCTCACG
CCTGTAATCCTAGCACTTTTGGGAGGCAGAGATGGGAGGATTACTTGAATCCAGGCATTTGAGACCAGCCTGGGT
AACATAGTGAGACCCTATCTCTACAAAACACTTTTAAAAAATGTACACCTGTGGTCCCAGCTACTCTGGAGGCTA
AGGTGGGAGGATCACTTGATCCTGGGAGGTCAAGGCTGCAG

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FIGURE 5454

CAGCCGCACGTGGGCTCGGCGCGATGGAGGAGGAGACGCATACTGACGCCAAAATCCGTGCTGAAAATGGAACAG
GGTCCAGCCCTCGGGGTCCTGGCTGCAGCCTCCGGCACTTTGCCTGCGAACAGAACCTGCTGTCGCGGCCAGATG
GCTCTGCTTCCTTCCTGCAAGGTGACACCTCTGTCTTGGCGGGTGTGTACGGGCCGGCCGAGGTGAAGGTCAGCA
AAGAGATTTTCAACAAGGCCACACTCGAAGTGATCCTGAGGCCGAAGATTGGGCTGCCTGGTGTTCAGAGAAGA
GCCGGGAGCGGCTGATCAGGAACACGTGCGAGGCGGTGGTGTGGGCACGTTGCACCCCCGCACCTCCATCACCG
TGGTGTGTCAGGTTGTGAGCGATGCCGGCTCTCTCTTGGCCTGTTGTCTGAATGCCGCCTGCATGGCATTGGTGG
ATGCAGGTGTGCCCATGCGGGCTCTCTTCTGTGGGGTCGCCTGCGCCCTGGACTCTGATGGGACCCTCGTGCTGG
ATCCTACATCCAAGCAAGAAAAGGAGGCCCGGGCAGTCCTGACCTTTGCCCTGGACAGCGTGGAACGGAAGCTGC
TGATGTCCAGCACCAAGGGGCTCTACTCAGACACTGAGCTCCAGCAGTGCTGGCTGCGGCCCAGGCCGCTTCGC
AACACGTCTTCCGTTTCTACCGGGAATCGCTGCAGAGGCGTTACTCCAAGAGCTTGAGGCAAGCTGGGGCAAGGGG
CCGCTCCCATTGCCTCCACCCACTCACCCCTACAGCCTGAAGCAAACCAGCAGCCCAGCCTTGCCTCTCTGACC
CATGGGCTCCTTGAGCCTGCAGCTCTGTAACCACAGGGCTCCTGTGGGGAGGCCCTTGGCCTGTGACAGCCCCAG
GCCTGGGGGCACAGATCCCCCAGCAAGGATAACATTCAAAGGAGCTCACATTTATGGAATGGATGAATCAATAA
ATTAATTCACCTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5455

MEEETHDAKIRAENG TGSSPRGPGCSLRHFACEQNLLSRPDGSASF LQGDTSVLAGVYGPAEVKVSKEIFNKAT
LEVILRPKIGLPGVAEKS RERLIRNTCEAVVLGTLHPRTSITVVLQVVSDAGSLLACCLNAACMALVDAGVPMRA
LFCGVACALDSDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYSDELQQCLAAAQAASQHVFRFYR
ESLQRRYSKS

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FIGURE 5456

GTTAGCCAAGATGGCGGTAGCGATCGCTGCAGCGAGGGTCTGGCGGCTAAACCGTGGTTTGAGCCAGGCTGCCCT
CCTGCTGCTGCGGCAGCCTGGGGCTCGGGGACTGGCTAGATCTCACCCCCCAGGCAGCAGCAGCAGTTTTCATC
TCTGGATGACAAGCCCCAGTTCACAGGGGCTCGGCGGAGTTTATAGATAAGTTGGAATTCATCCAGCCCAACGT
CATCTCTGGAATCCCCATCTACCGCGTCATGGACCGGCAAGGCCAGATCATCAACCCAGCGAGGACCCCCACCT
GCCGAAGGAGAAGGTGCTGAAGCTCTACAAGAGCATGACACTGCTTAACACCATGGACCGCATCCTCTATGAGTC
TCAGCGGCAGGGCCGGATCTCCTTCTACATGACCAACTATGGTGAGGAGGGCACGCACGTGGGGAGTGCCGCCGC
CCTGGACAACACGGACCTGGTGTGTTGGCCAGTACCGGGAGGCAGGTGTGCTGATGTATCGGGACTACCCCTGGA
ACTATTTCATGGCCAGTGCTATGGCAACATCAGTGACTTGGGCAAGGGGCGCCAGATGCCTGTCCACTACGGCTG
CAAGGAACGCCACTTCGTCACTATCTCCTCTCCACTGGCCACGCAGATCCCTCAGGCGGTGGGGGCGGCGTACGC
AGCCAAGCGGGCCAATGCCAACAGGGTCGTCTGTACTTTCGGCGAGGGGGCAGCCAGTGAGGGGGACGCCCA
TGCCGGCTTCAACTTCGCTGCCACACTTGAGTGCCCCATCATCTTCTTCTGCCGGAACAATGGCTACGCCATCTC
CACGCCACCTCTGAGCAGTATCGCGGCGATGGCATTGCAGCACGAGGCCCCGGGTATGGCATCATGTCAATCCG
CGTGGATGGTAATGATGTGTTTGCCGTATACAACGCCACAAAGGAGGCCCCGACGGCGGGCTGTGGCAGAGAACCA
GCCCTTCCTCATCGAGGCCATGACCTACAGGATCGGGCACCACAGCACCAGTGACGACAGTTCAGCGTACCGCTC
GGTGGATGAGGTCAATTACTGGGATAAACAGGACCACCCCATCTCCCGGCTGCGGCACATCTGCTGAGCCAAGG
CTGGTGGGATGAGGAGCAGGAGAAGGCCTGGAGGAAGCAGTCCCGCAGGAAGGTGATGGAGGCCTTTGAGCAGGC
CGAGCGGAAGCCCCAAACCCCAACCCCAACCTACTCTTCTCAGACGTGTATCAGGAGATGCCCGCCAGCTCCGCAA
GCAGCAGGAGTCTCTGGCCCCGCCACCTGCAGACCTACGGGGAGCACTACCCACTGGATCACTTCGATAAGTGAGA
CCTGCTCAGCCCACCCCCACCCATCCTCAGCTACCCGAGAGGTAGCCCCACTCTAAGGGGAGCAGGGGGACCTG
ACAGCACACCACTGTCTTCCCCAGTCAGCTCCCTCTAAATACTCAGCGGCCAGGGCGGCTGCCACTCTTCACCC
CTGCTCCTCCCGGCTGTTACATTGTCAGGGGACAGCATCTGCAGCAGTTGCTGAGGCTCCGTCAGCCCCCTCTTC
ACCTGTTGTTACAGTGCCTTCTCCAGGGGCTGGGTGAGGGCACATTAGGACTAGAAGCCCTCTGGGCATGGG
GTGGACATGGCAGGTCAGCCTGTGGAACCTGCGCAGGTGCGAGTGGCCAGCAGAGGTCACGAATAAACTGCATCT
CTGCGCCTGGCTCTCT

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FIGURE 5457

MAVAIAAARVWRLNRGLSQAALLLLRQPGARGLARSHPPRQQQQFSSLDDKPQFPGASAEFIDKLEFIQPNVISG
IPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMILLNTMDRIYESQRQGRISFYMTNYGEEGTHVGSAAALDN
TDLVFGQYREAGVLMYRDYPLELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYAAKR
ANANRVVICYFGEGAASEGDAHAGFNFAATLECP I IFFCRNNGYAISTPTSEQYRGDGIAARGPGYGIMSIRVDG
NDVFAVYNATKEARRRAVAENQPFLEAMTYRIGHHSTSDSSAYRSVDEVNYWDKQDHPISRLRHILLSQGWWD
EEQEKAWRKQSRRKVMFAFEQAERKPKPNPNLLFSDVYQEMPAQLRKQESLARHLQTYGEHYPLDHFDK

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FIGURE 5458

AGCAAGATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCCATGTGGAATGGGCGTATCAGGGGCATCCAT
CGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAACTAT
TTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCCAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCT
TACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCTTTTTTCATCCTGAAGCAGGGAGGCGCAGTC
AAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAA
GTGCCTGTGGAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCTCCTCCGCCTGAAG
GAGCTCCAGTCCCTTGTGCTGTCAGCGCTGCTCCCACGTGGACGACTGGTGTCTCAGCCGCCTCTACCCACTGGCC
GACTCGTTGCAGGAGCTCTCGCTGGCCGGTTGCCCCCGCATCTCCGAACGGGGCCTCGCCTGCCCTCCACCACCTC
CAGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCTGGCCTCACTCAGATATTGGTGGAG
GAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCT
CGGGACACAGCCAGCCCTGTCCCTGCCTAGCCTTTAGCCCTGTCCCCACTCACGTGGCTTCTCAGCGGGCTGCAT
GGAATGTCTGGTAGCTCACCACACTTCTGGCTTCCATTTGTCTTCACTCAACGTCAGGGTGGGGGAGTGGTGTCTG
GCCAATCACAGGAGAGAGCGTGAGTTCCAGTATTTATTCTGGCTGCCCTTGGCTAAAGGTCACAGCTCCTGTC
ACCCTGTTCAGGCAGCCCTTTCCATGCCCTGTTTCAGGCCTGGGGAGGTAAAGGCTCAGGCTGTTAGTAGCCGCAG
AGAGCCACACTCACCTTGTTCAGGAGACTCTTCTCAAAGTGTCTTATGTGAGTGCAGTGCATTTCTTGCAGGGA
CCCTGACTGACACAGGGGCTACTACTGACACTTTACAGGGATGGTTCTCCCCCGTGCAGGGCCGCTGTGCCCACT
GCAGGACATGCAGCATCCTTCGCCCCACTCCACTCACTAAAGGCCAGCGCACCCAGGCCCATAGTATTGCTGG
TTATGGATTTATTGACTTTATGTTCCAAATTCAGCTTTTTTCAGTTGGCAGTTTTTTGAAAGGGGATAAGCTTTGT
CAGTAGAGGGCACCAAACAGGCATTATAGGAGGAAAGGCGCCTCCTTCGTGGTTCTTGTGTTGTTGTGCTTCTGCC
TCTGGACGCCGCAGTGCATGTGGCTTCCCCAGCACCCAGCTCCTGAAGCACAGGCGGTGAGCAGCTGCCCTTGG
CACCTCCAGCCCTCAGAAGTTGCGTAGGAGACACAGCGCCTCCACTGAGGCACCTCTCTGGGAATAACGTTCCC
CAGCACCCCAAATGGATTTCCAGTCAATTCAGAAGCATTTTACCAGTGAAGCCCTCATTATTCCAGTTCAGTGT
AAAGCCAGTAATTCTCTATATTAACTTTCCCTGTTCAAGTT

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FIGURE 5459

MAAPWASLRVAPMWNGRIRGIHRLGAAVAPEGSQKKKRTILQFLTNYFYDVEALRDYLLQREMYKVHEKNRSYT
WLEKQHGPYGAGAFFILKQGGAVKFRDKEWIRPDKYGHFSQEFWNFCEVPVEAVDAGDCDINYEGLDNLLRLKEL
QSLSLQRCSHVDDWCLSRLYPLADSLQELSLAGCPRI SERGLACLHHLQNLRRLDISDLPAVSNPGLTQILVEEM
LPNCEVVGVDWAEGLKSGPEEQPRDTASPVPA

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FIGURE 5460

GGAGGCTGCAACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGAT
CACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGT
GGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAA
GCGGAAAAAGCTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAG
ATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTG
GCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTACTC
TCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGA
GTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGG
GGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTTTCCTCTTCGCCGCCCTCCTTCCGCCGCCCGCT
CCTTCCCTGTATCTTTTAAAGTTTCTTTCCTACCCTGTCCCATTTTCTGGTAAGGTTTCTAGGAGGTCTGTTA
GGTGTACATCCTACAGCTTATTGGCTTAATATGTACTCTCCTTTGATGTGGTCTACTTGGGGCCGATTGGGAGAA
AGAGAAATCAATAGTGCAACTGTTTTGATAATGAATATTGACAAGTGTCTTTTGAATAAAGAACCAGTCC

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FIGURE 5461

ACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATC
GAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAG
CGAGAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGC
TGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAG
CTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCC
AGGAAATCCAACTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGT
TGGTGATCTTTAACTGGAAGGCTGCTTTCTCCTTTCGCCGCCCCCTCCTTCCGCCGCCCGCTCCTTCCCTGTGTC
TTTTTCACCAAAGTGTCCGCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATT
TAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATGTACACATTTTGTAAATTACCTCTTT
TGTTGTTTTGTAGCAACCTTTTGTAACCATTCATATAATACCACAGCCCTGAAGCAGCGATCGAATCCCTTTC
TCACTTT

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FIGURE 5462

CCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATCGAG
GCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCGA
GAAGTTGAGGGAGAAAAGGTGGGCCCCGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGG
TTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAAAAGAAGATTGTGTTTTTGCCACTGATTTAGCCATGTGAAACTCATCTCATTACCCTTTTCT
GAGTTTGAAGCTGCTGTCTCTACAAGTGCCATCTCATTGTGCTTTGTATCAGTCAGTGCTGGAGAAATCTTGAAT
AGCTTATGTACAAAACTTTT

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FIGURE 5463

TCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTG
AGCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGAGGTAAGAAGGTTATTGAAAACCGGGCC
TTAAAAGATGAAGAAAAGATGGAACCTCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGAT
AGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAG
CTGGCAGAATCCCTTTGCCGAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCT
GCTGAAGAAAAGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAG
GCGGAGACCCATGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAA
CTGAAATGCACCAAAGGGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATG
TAGAACGCCTCAGTCTCACCTGCTGCTGCTCCTCCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCAC
CTTTGGAAACAACATTTAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATG

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FIGURE 5464

MMQRSELSASSEKLREKGGPGNRGKKVIENRALKDEEKMELQEIQLREAKHIAEEADRKYE EVARKLVIIEGDLE
RTEERAELAESLCREMDEQIRLMDQNLKCLSAAEEKYSQKEDKYEEEIKILTDKIKEAETHAEFAERSVAKLEKT
IDDLEDKCLKCTKGEHLCTQRMLDQTLLDLNEM

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FIGURE 5465

GCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGGTTGAAGAGGAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGAGTTTGCTGAGAGAT
CGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGGGGAGCACCTCTGTA
CACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAACGCCTCAGTCTCACCCCTGCTGCTGCT
CCTCCCTCTGAACCAGACTCCGCCTGAGGCCAGCCTGCCCCGAAGCTGACCTTTAATTGAGGGCTGATCTTTAACT
GGAAGGCTGCTTTCTCCTTT

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FIGURE 5466

ATGTCTAAGTCAGAGTGTCCCGAAGAGCCTGAACAGCTGAGGAAGCTCTTCATTGGAGGATTGAGCTTTGAAACA
ACTGATAAGAGCCTGAGAAGCCATTTTGAGCAATGGAGAATGCTCACGGACTGTGTGGTGGATAGAAGAGTTGTG
GAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGAACATCACCTAAGAGATTATTTTGAACAGTAT
GGAAAAATTGAAGTGACTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTCTAACCTTT
GATGACCGTGACTCCGTGGGTGGCTATGGCGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAA

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FIGURE 5467

MSKSECPEEPEQLRKLFIGGLSFETTDKSLRSHFEQWRMLTDCVVDRRVVEPKRAVSREDSQRPEHHLRDYFEQY
GKIEVTEIMTDRGSGKKRGFAFLTDDRDSVGGYGGSSSSSSSYGSGRRF

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FIGURE 5468

CGCCCGACTTGTGCGCCCGGGAAACCCCGTCGTTCCCTTTCCCTGGCTGGCAGCGCGGAGGCCGCACGATGCCT
GGAGTTACTGTAAAAAGACGTGAACCAGCAGGAGTTTCGTCAGAGCTCTGGCAGCCTTCCTCAAAAAGTCCGGGAAG
CTGAAAGTCCCCGAATGGGTGGATACCGTCAAGCTGGCCAAGCACAAAGAGCTTGCTCCCTACGATGAGAACTGG
TTCTACACGCGAGCTGCTTCCACAGCGCGGCACCTGTACCTCCGGGGTGGCGCTGGGGTTGGCTCCATGACCAAG
ATCTATGGGGGACGTCAGAGAAACGGCGTCATGCCCAGCCACTTCAGCCGAGGCTCCAAGAGTGTGGCCCGCCGG
GTCCTCCAAGCCCTGGAGGGGCTGAAAATGGTGGAAAAGGACCAAGATGGCGGCCGCAAACCTGACACCTCAGGGA
CAAAGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAACCATGCTGGGTT
AATAAATTGCCTCATTCGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5469

MPGVTVKDVNQEFVRALAAFLKKSGKLKVPEWVDTVKLAKHKELAPYDENWIFYTRAASTARHLYLRGGAGVGSM
TKIYGGRQRNGVMPSHFSRGSKSVARRVLQALEGLKMVEKDQDGGRKLTPOGQRDLDRAGQVAAANKKH

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FIGURE 5470

GGGCGCCCCGCGGTCACTTCCGCGCGGACACCAGCCTTGCAAGAGCCCAGGGAGATGAAGACTTCGCCCCGAGGG
GCGGCCTCCCCAGGCCCTCCCGGCCTGGCCTGGTTCCCGTCAGCATCATCGGGGCTGAGGATGAGGATTTTGAG
AACGAGCTGGAGACAAACTCAGAAGAGCAAAACAGCCAGTTCCAGAGCCTGGAGCAGGTGAAGCGGCGCCCAGCC
CACCTCATGGCCCTCCTGCAGCACGTGGCCCTGCAGTTTGAGCCAGGACCCCTGCTTTGCTGTCTGCATGCCGAC
ATGCTGGGCTCACTGGGCGCCAAGGAGGCCAAGAAGGCCTTCTGGACTTCTACCACAGCTTCTGGAGAAGACA
GCGGTTCTCCGGGTGCCGTCCCTCCCAACGTCGCCTTTGAACTTGACCGCACTAGGGCTGACCTCATCTCCGAG
GATGTCCAGCGGCGGTTCGTGCAGGAGGTGGTGCAAAGCCAGCAGGTAGCCGTGGGCGGCGAGCTGGAGGACTTC
CGTTCCAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAGCTGGCCAGCTGGAGGCTTGGGTTGGGCGGGAC
CGAGCCAGCTACGAGGCCCGGGAGCGGCACGTGGCGGAGCGGCTGCTCATGCACCTGGAGGAGATGCAACATACC
ATCTCTACCGACGAAGAAAAGAGTGCTGCCGTGGTCAACGCCATTGGCCTGTACATGCGCCACCTTGGGGTGCGG
ACCAAGAGTGGAGACAAGAAGTCGGGGAGGAACTTCTTCCGAAAAAGGTGATGGGGAACCGGCGGTTCGGACGAG
CCTGCCAAGACCAAGAAGGGGCTGAGCAGCATCTGGATGCCGCCCGCTGGAACCGGGGAGAGCCCCAGGTTCCA
GATTTTCGACACCTCAAAGCAGAGGTTGATGCCGAGAAGCCAGGTGCTACAGACCGGAAGGGAGGCGTGGGGATG
CCCTCTCGGGACCGGAATATCGGGGCTCCTGGGCAGGACACCCCTGGAGTCTCTCTGCACCTCTGTCCCTGGAC
AGCCCAGACCGGGAACAGGTGCTGACGCCCCCTGGAGCTGGGGGACTCATCCCCGAGGGCCCAATGAGCCTG
GAGTCCTTGGCGCCCCCAGAGAGTACCGACGAGGGGGCCGAAACCGAGAGCCCCGAGCCTGGAGATGAGGGGAG
CCGGGGCGGTTCGGGACTGGAGCTTGAACCAGAAGAGCCTCCCGGCTGGCGGGAACCTCGTCCCCCAGACACCCCTG
CACAGCCTGCCAAGAGCCAGGTGAAGCGGCAGGAGGTATCAGCGAGCTGCTGGTGACAGAGGCGGCCCACGTG
CGCATGCTGCGGGTGCTGCACGACCTCTTCTTCCAGCCCATGGCAGAATGCCTGTTCTTCCCTTGGAGGAGCTG
CAGAACATCTTCCCCAGCCTGGACGAGCTCATCGAGGTGCATTCCCTGTTCTCGATCGCCTGATGAAGCGGAGG
CAGGAGAGTGGCTACCTCATCGAGGAGATCGGAGACGTGCTGCTGGCCCGGTTTGATGGTGCTGAGGGCTCCTGG
TTCCAGAAAATCTCCTCCCGCTTCTGCAGCCGCCAGTCAATTTGCCTTAGAGCAGCTCAAAGCCAAGCAACGCAAG
GACCTTCGGTTCTGTGCCTTCGTGCAGGAAGCTGAGAGCCGCCCGCGGTGCCGCCCGCTGCAGCTGAAGGACATG
ATCCCCACGGAGATGCAGCGGCTGACCAAGTACCCCTGCTCCTGCAGAGCATCGGGCAGAACACAGAAGAGCCC
ACAGAACGGGAGAAAGTGGAGCTGGCAGCCGAGTGCTGCCGGGAAATTCTACACCACGTCAACCAAGCCGTGCGT
GACATGGAGGACCTGCTGAGGCTCAAGGACTATCAGCGGCGCCTGGACTTGTCCCACCTTCGGCAGAGCAGCGAC
CCTATGCTGAGCGAGTTCAAGAACCTGGACATCACCAGAAGAAATTGGTCCACGAGGGGCCCCACTGACGTGGCGG
GTGACTAAGGACAAGGCAGTGGAGGTGCATGTGCTGCTGCTGGACGACCTGCTGCTGCTGCCAGCGCCAGGAC
GAGCGGCTGCTGCTCAAGTCCCATAGCCGGACACTGACGCCACGCCCGATGGCAAGACCATGCTGCGGCCCCGTG
CTGCGGCTCACCTCCGCCATGACCCGCGAGGTGGCCACCGATCACAAGCCTTCTACGTCCTTTTACCTGGGAC
CAGGAGGCCCAGATATACGAGCTGGTGGCACAGACTGTGTGCGGAGCGGAAAAACTGGTGTGCTCTCATCACTGAG
ACTGCCGGATCCCTGAAAGTCCCTGCCCTGCTCTCGCCCTAAGCCCCGGCCAGCCGAGCAGCACCCGAGAA
CCCCCTCTCAGCAGCTCTGAGAACGGCAATGGTGGCCGAGAGACGTCTCCAGCTGATGCCCGGACCGAGAGAATC
CTCAGTGACCTCCTGCCCTTCTGCAGACCAGGCCCCGAGGGCCAGCTCGCTGCCACGGCCCTTCGGAAAGTGCTG
TCCCTGAAGCAGCTTCTGTTTCCGGCGGAGGAAGACAATGGGGCGGGGCTCCTCGAGATGGGGATGGGGTCCCCA
GGGGGCGGCCCCCTGAGCCAGCACGGACCCAGGAAATCCAGGAGAACCTGCTCAGCTTGGAGGAGACCATGAAG
CAGCTGGAGGAGTTGGAGGAGGAATTTTGCCGCTGAGACCCCTCCTGTCTCAGCTTGGGGGGAACCTGTGTCCTCC
CAGCCTGGCTGCACTTGAAGGTTCCCGCCAGGAAGGCCTTTTGCAAGAAGGAGAGGAATGGGGGAGAGGACGTGA
GGGACCACCCCCACCCACACAGCTGCCGACGATCTCACACCCCGAGGGCCTGAGGAGAGGGAGCTGTGGGCCAC
GCCTGGGAGGGGCCCAGCTGGGGTTACTGGCCCCGATGAGCCTCGGCCATCTCTCCCTCCTGCCCTCTGCTTGG
GGGACTCAGGGCTCATTCTGGAGGGCACCACGGTGACCCGGGCCATCTCAGTATTGCCTGTGGGGGCCACCCCT
CCACCCCCACCCCAAGTGCTTCGCTCTGTTTTTATACCTGAATTGGAGGGTTTATTTTTTAAATATATATTAT
CTAAGAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5471

MEDFARGAASPGPSRPGLVPSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRPAHLMALLQHVALQFEPGPL
LCCLHADMLGSLGPKEAKAFIDFYHSFLEKTAVLRVPVPPNVAFELDRTRADLISEDVQRRFVQEVVQSQQVAV
GRQLEDFRSKRLMGMTWPWEQELAQLEAWVGRDRASYEARERHVAERLLMHLEEMQHTISTDEEKSAAVVNAIGLY
MRHLGVRTKSGDKKSGRNFFRKKVMGNRRSDEPAKTKKGLSSILDAARWNRGEPQVPDFRHLKAEVDAEKPGATD
RKGGVGMPSRDRNIGAPGQDTPGVSLHPLSLDSPDREPGADAPLELGDSSPQGPMSESLAPPESTDEGAETESP
EPGDEGEFGRSGLLEPEEPPGWRELVPDTHSLPKSQVKRQEVISELLVTEAAHVRMLRVLHDLFFQPMACEL
FFPLEELQNIFPSLDELIEVHSLFLDRLMKRRQESGYLIEEIGDVLLARFDGAEGSWFQKISSRFCSRQSFALQ
LKAKQRKDP RFCAFVQEAESRPRCRLQLKDMIPTMQRLTKYPLLLQSIGQNTTEPTEREKVELAAECCREILH
HVNQAVRDMEDLLRLKDYQRRDLHLRQSSDPMLSEFKNLDITKKKLVHEGPI TWRTKDKAVEVHVLLDDLL
LLLQRQDERLLLKSHSRTLTPDGTMLRPVLRRLTSAMTREVATDHKAFYVLTWDQEAQIYELVAQTVSERKN
WCALITETAGSLKVPAPASRPKPRSPSSTREPLLSSSENGNGGRETSPADARTERILSDLLPFCRPGPEGQLAA
TALRKVLSLKQLLFPAAEEDNGAGPPRDGDGVPGGGPLSPARTQEIQENLLSLEETMKQLEEELEEEFCRLRPLLSQ
LGGNSVPQPGCT

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FIGURE 5472

CCGCCGAGCCTCTGTGCGGTGGGACCAACGGACGGACGGACGGACGGACGGACCTACCGAGGCGCGGGCGCTGC
AGAGGCTCCAGCCCAAGCCTGAGCCTGAGCCCGCCCCGAGGTCCCCGCCCGCCCGCCTGGCTCTCTCGCCGCG
GAGCCGCCAAGATGGGGGACAAGAAAGATGACAAGGACTCACCCAAGAAGAACAAGGGCAAGGAGCGCCGGGACC
TGGATGACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAAGATGTGAGTGAAGAGGTCTGCCGGAATACAACA
CAGACTGTGTGCAGGGTTTGACCCACAGCAAAGCCCAGGAGATCCTGGCCCGGGATGGGCCTAACGCACTCACGC
CACCGCCTACCACCCACAGAGTGGGTCAAGTTTTGCCGGCAGCTCTTCGGGGGCTTCTCCATCCTGCTGTGGATCG
GGGCTATCCTCTGCTTCTGGCCTACGGTATCCAGGCGGGCACCGAGGACGACCCCTCTGGTGACAACCTGTACC
TGGGCATCGTGCTGGCGGCCGTGGTGATCATCACTGGCTGCTTCTCTACTACCAGGAGGCCAAGAGCTCCAAGA
TCATGGAGTCTTCAAGAACATGGTGCCCCAGCAAGCCCTGGTGATCCGGGAAGGTGAGAAGATGCAGGTGAACG
CTGAGGAGGTGGTGGTCCGGGACCTGGTGAGATCAAGGGTGGAGACCGAGTGCCAGCTGACCTGCGGATCATCT
CAGCCCACGGCTGCAAGGTGGACAACCTCCTCCCTGACTGGCGAATCCGAGCCCCAGACTCGCTCTCCGACTGCA
CTCACGACAACCCCTTGGAGACTCGGAACATCACCTTCTTTTCCACCAACTGTGTGGAAGGCACGGCTCGGGGCG
TGGTGGTGGCCACGGGCGACCGCACTGTCTATGGGCCGTATCGCCACCCTGGCATCAGGGCTGGAGGTGGGCAAGA
CGCCCATCGCCATCGAGATTGAGCACTTCATCCAGCTCATCACGGCGTGGCTGTCTTCTGGGTGTCTCTTTCT
TCATCCTCTCCCTCATTCTCGGATACACCTGGCTTGAGGCTGTCTCTTCTCATCGGCATCATCGTGGCCAATG
TCCCAGAGGGTCTGCTGGCCACTGTCACTGTGTGTCTGACGCTGACCGCCAAGCGCATGGCCCGGAAGAACTGCC
TGGTGAAGAACCTGGAGGCTGTAGAAACCTGGGCTCCACGTCCACCATCTGCTCAGATAAGACAGGGACCCCTCA
CTCAGAACCGCATGACAGTCGCCACATGTGGTTTGACAACAGATCCACGAGGCTGACACCACTGAGGACCAGT
CAGGGACCTCATTGTACAAGAGTTCGCACACCTGGGTGGCCCTGTCTCACATCGCTGGGCTCTGCAATCGCGCTG
TCTTCAAGGGTGGTCAGGACAACATCCCTGTGCTCAAGAGGGATGTGGCTGGGGATGCGTCTGAGTCTGCCCTGC
TCAAGTGCATCGAGCTGTCTCTGGCTCCGTGAAGCTGATGCGTGAACGCAACAAGAAAGTGGCTGAGATTCCCT
TCAATTCACCAACAATAACAGCTCTCCATCCATGAGACCGAGGACCCCAACGACAACCGATACCTGCTGGTGA
TGAAGGGTGCCCCGAGCGCATCCTGGACCGCTGCTCCACCATCCTGCTACAGGGCAAGGAGCAGCCTCTGGACG
AGGAAATGAAGGAGGCCTTCCAGAATGCCTACCTTGAGCTCGGTGGCCTGGGCGAGCGCGTGTGGTTTCTGCC
ATTATTACCTGCCCGAGGAGCAGTTCCCAAGGGCTTTGCCTTCGACTGTGATGACGTGAACCTTACCACGGACA
ACCTCTGCTTTGTGGGCCTCATGTCCATGATCGACCCACCCCGGGCAGCCGTCCCTGACGCGGTGGGCAAGTGTG
GCAGCGCAGGCATCAAGGTTCATGATGACCGGCGATCACCCCATCACGGCCAAGGCCATTGCCAAGGGTGTGG
GCATCATCTCTGAGGGCAACGAGACTGTGGAGGACATCGCCGCCCCGGCTCAACATTCCTGTCAGCCAGGTAAAC
CCCGGGATGCCAAGGCCTGCGTGATCCACGGCACCGACCTCAAGGACTTACCTCCGAGCAAATCGACGAGATCC
TGCAGAAATCACACCGAGATCGTCTTCGCCCGCACATCCCCCAGCAGAAGCTCATCATTGTGGAGGGCTGTGAGA
GACAGGGTGAATTTGTGGCTGTGACCGGGGATGGTGTGAACGACTCCCCCGCTCTGAAGAAGGCCGACATTGGGG
TGGCCATGGGCATCGCTGGCTCTGACGTCTCCAAGCAGGCGAGCTGACATGATCCTGCTGGACGACAACCTTGCT
CCATCGTACAGGGGTGGAGGAGGGCCGCTGATCTTCGACAACCTAAAGAAGTCCATTGCCTACACCTGACCA
GCAATATCCCGGAGATCACGCCCTTCTGCTGTTCATCATGGCCAACATCCCGCTGCCCTGGGCACCATCACCA
TCCTCTGCATCGATCTGGGCACTGACATGGTCCCTGCCATCTCACTGGCGTACGAGGCTGCCGAAAGCGACATCA
TGAAGAGACAGCCCAGGAACCCGCGGACGGACAATTTGGTCAATGAGAGACTCATCAGCATGGCCTACGGGCAGA
TTGGAATGATCCAGGCTCTCGGTGGCTTCTTCTTACTTTGTGATCCTGGCAGAAAATGGCTTCTTGCCCGGCA
ACCTGGTGGGCATCCGGCTGAAC TGGGATGACCGCACCGTCAATGACCTGGAAGACAGTTACGGGCAGCAGTGGG
CATAACGAGCAGAGGAAGGTGGTGGAGTTCACCTGCCACACGGCCTTCTTTGTGAGCATCGTTGTCTGCTCAGTGGG
CCGATCTGATCATCTGCAAGACCCGAGGAACCTCGGTCTTCCAGCAGGGCATGAAGAACAAGATCCTGATCTTCG
GGCTGTTTGAGGAGACGGCCCTGGCTGCCTTCTGTCTACTGCCCCGGCATGGACGTGGCCCTGCGCATGTACC
CTCTCAAGCCCAGCTGGTGGTCTGTGCTTCCCTACAGTTTCTCTCATCTTCGTCTACGACGAAAATCCGCAAAC
TCATCCTGCGCAGGAACCCAGGGGGTTGGGTGGAGAAGGAAACCTACTACTGACCTCAGCCCCACCACATCGCCC
ATCTCTTCCCCGTCCCCCAGGCCAGGACCGCCCTGTGAGTCCCCCAATTTTGTATTCTGGGGGGAGGAGCCC
TCTCTTCTGTGGCCCCACCTTGGCCCCACCCCTCCACTATCTCCTGCCCCCCCCACTCTGGCTGGCTTCTCT
CCCCTGCCCCAAACCTCTCTCCTCTCTCTTTTCTGTGTGAGTTTCTCTCCTCTCCTCACCCTCTATCCATTCC
TCCCGCCCCAGCCACCTCCCTGGGCTCTTTTTTACTCCCTTCAGCCCCCGGCTGATGCCATCTCTGGTTCTGG
ACAATTATCAAATATATCAGTGGGGAGAGAG

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FIGURE 5473

MGDKKDDKDSPPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNALTPPPT
TPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPSGDNLVYLGIVLAADVVIITGCFSYQEAKSSKIMES
FKNMVPQQALVIREGEKMQVNAEEVVVDLVEIKGGDRVPADLRISAHGCKVDNSSLTGESEPTQTRSPDCTHDN
PLETRNITFFSTNCVEGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITGVAVFLGVSFILS
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTTLAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNR
MTVAHMFWDNQIHEADTTEDQSGTSFDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCI
ELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCSTILLQGKEQPLDEEMK
EAFQONAYLELGGGLGERVLGFCHYYLPEEQFPKGFAFDCDDVNFTTIDNLCFVGLMSMIDPPRAAVPDAVGKCRSAG
IKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLKDFTSEQIDEILQNH
TEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVT
GVEEGRILIFDNLKKSIAYTILTSNIPEITPFLFIMANIPPLPLGTITILCIDLGTDMVPAISLAYEAAESDIMKRO
PRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLEDSEYQQQWTYEQ
RKVVEFTCHTAFFVSIVVVQWADLIICKTRRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKP
SWWFCAFPYSFLIFVYDEIRKLILRRNPGGWVEKETYY

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FIGURE 5474

CCCGAGTCTCAGGAGCCTGCCTTACAGCAGGAGGTGCAGGCCTCGTCACCTGCAGAGGTGCCTGTGTCTCAGCCT
GACCCCTTGCCAGCTTCTGACCACAGTTACGAGCTGCGCAATGGTGAAGCCATTGGGCGGGATCGCCGGGGGCGC
AGGGCCCGGAGGAACAACAGTGGAGAAGCAGGCGGGGCAGCCACACAGGAGCTCTTCTGCTCAGCCTGTGACCAG
CTCTTTCTCTACCCCAACCAGCTACAGCAGCACCTGCGGAGTCACCGGGAGGGCGTCTTTAAGTGCCCCCTGTGC
AGTCGTGTCTTCCCTAGCCCTTCCAGTCTGGACCAGCACCTTGGAGACCATAGCAGCGAGTCACACTTCCTGTGT
GTAGACTGTGGCCTGGCCTTCGGCACAGAGGCCCTCCTCCTGGCCCCACCGGCGAGCCCCACACCCCGAATCCTCTG
CATTATGTCCATGTGGGAAGACCTTTGTCAACCTTACCAAGTTCCCTTTATCACCGGCGTACTCATGGGGTAGGG
GGTGTCCCTCTGCCCACAACACCAGTCCCACCAGAGGAACCTGTCAATTGGTTTCCCTGAGCCAGCCCCAGCAGAG
ACTGGAGAGCCAGAGGCCCTTGAGCCCCCTGTGTCTGAGGAGACCTCAGCAGGGCCCCGCTGCCCCAGGCACCTAC
CGCTGCCTCCTGTGCAGCCGTGAATTTGGAAAGGCCTTGCAGCTGACCCGGCACCAACGTTTTGTGCATCGGCTG
GAGCGGCGCCATAAATGCAGCATTGTGTGGCAAGATGTTCAAGAAGAAGTCTCACGTGCGTAACCACCTGCGCACA
CACACAGGGGAGCGGCCCTTCCCTGCCCCTGACTGCTCCAAGCCCTTCAACTCACCTGCCAACCTGGCCCGCCAC
CGGCTCACACACACAGGAGAGCGGCCCTACCGGTGTGGGGACTGTGGCAAGGCTTTCACGCAAAGCTCCACACTG
AGGCAGCACCGCTTGGTGCATGCCCAGCACTTCCCTACCGCTGCCAGGAATGTGGGGTGCCTTTTACCCTCCT
TACCGCTGCTCATGCACCGCTACCATCACACAGGTGAATACCCCTACAAGTGTGCGAGTGCCCCCGCTCCTTC
TTGCTGCGTCGGCTGCTGGAGGTGCACCAGCTCGTGGTCCATGCCGGGCGCCAGCCCCACCGCTGCCCATCCTGT
GGGGCTGCCCTTCCCTCCTCACTGCGGCTCCGGGAGCACCGCTGTGCAGCCGCTGCTGCCAGGCCCCACGGCGC
TTTGAGTGTGGCACCTGTGGCAAGAAAGTGGGCTCAGCTGCTCGACTGCAGGCACACGAGGCGGCCCATGCAGCT
GCTGGGCCTGGAGAGGTCCCTGGCTAAGGAGCCCCCTGCCCTCGAGCCCCACGGGCCACTCGTGCACCAGTTGCC
TCTCCAGCAGCCCTTGGAAGCACTGCTACAGCATCCCTGCGGCCCTGCCCGCCGCGGGGTCTAGAGTGCAGC
GAGTGCAAGAAGCTGTTTCAGCACAGAGACGTCACTGCAGGTGCACCGGCGCATCCACACAGGTGAGCGGCCATAC
CCATGTCCAGACTGTGGCAAAGCGTTCCGTGAGGTACCCACCTGAAAGACCACCGGCGCCTGCACACAGGTGAG
CGGCCCTTTGCCTGTGAAGTGTGTGGCAAGGCCTTTGCCATCTCCATGCGCCTGGCAGAACATCGCCGCATCCAC
ACAGGCGAACGACCCCTACTCCTGCCCTGACTGTGGCAAGAGCTACCGCTCCTTCTCCAACCTCTGGAAGCACCGC
AAGACCCATCAGCAGCAGCATCAGGCAGCTGTGCGGCAGCAGCTGGCAGAGGCGGAGGCTGCCGTGGCCTGGCC
GTCATGGAGACTGCTGTGGAGGCGCTACCCCTGGTGGAAAGCCATTGAGATCTACCCTCTGGCCGAGGCTGAGGGG
GTCCAGATCAGTGGCTGACTCTGCCCGACTTCCTCTTTGGCACCTCCATTCCCTGTTGCTGAAGGCCCTCCAGCA
TCCCTTAAGCATCTGTACATACTGTGTCCCTTCCTCTTCCATCCCCACCACCTTGTAAGTTCTAAATTGGATT
TATTCTCTCGTGAGGGGGGTGCTCTGGGGTCCTTGACACACATAAAGGTGCCCCCCCACCTTCCACCTCTTAGCA
CTGGTGACCCCCAAAAATGAAACCATCAATAAAGACTGGGTTGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 5475

MFKKKSHVRNHLRTHHTGERPFPCPDCSKPFNSPANLARHRLTHTGERPYRCGDCGKAFTQSSTLRQHRLVHAQHF
PYRCQECGVRFHRPYRLLMHRYHHTGEYPYKCRECPRSFLLRRLLEVHQLVVHAGRQPHRCPCSGAAFPSSLRLR
EHRCAAAAAQAPRRFECGTCGKKVGSAAARLQAHEAAHAAAAGPGEVLAKEPPAPRAPRATRAPVASPAALGSTATA
SPAAPARRRGLECECKKLFSTETSLQVHRRHTGERPYPCPDCGKAFRQSTHLKDHRRHTGERPFACEVCGKA
FAISMRLAEHRRHTGERPYSCPDCGKSYSRFSNLWKHRKTHQQQHQAQAVRQQLAEAEAAVGLAVMETAVEALPL
VEAIEIYPLAEAEVQISG

TCTGAGAGGCGAGGCCGGGTGAGGCGGCGAGGGCGGCCGACAGGGCGCGGACAGGGGACAGCGAGGGCGCC
 GGGAGCCGCGGCCCGGAATCGGGGCGCTTCGCCCGGGGCCCCAGCAATGAAGACCCGCGGACACAGGGTTTG
 CTTTCCCGGATTGGGCCTACAAGCCAGAGTCGTCCCTGGCTCAAGGCAGATCCAGCTGTGGCACTTTATCCTGG
 AGCTGCTGCGGAAGGAGGAGTACCAGGGCGTCATTGCCTGGCAGGGGGACTACGGGGAATTTCGTATCAAAGACC
 CTGATGAGGTGGCCCCGCTGTGGGGCGTTTCGCAAGTGCAAGCCCCAGATGAATTACGACAAGCTGAGCCGGGCCC
 TGCCTATTACTATAACAAGCGCATTCTGCACAAGACCAAGGGGAAACGGTTCACCTACAAGTTCAATTTCAACA
 AACTGGTGCTGGTCAATTACCCATTCAATTGATGTGGGGTTGGCTGGGGGTGCAGTGCCCCAGAGTGCCCCGCCAG
 TGCCGTGCGGTGGTAGCCACTTCCGCTTCCCTCCCTCAACGCCCTCCGAGGTGCTGTCCCCACCGAGGACCCCC
 GCTCACCACCAGCCTGCTCTTCATCTTCATCTTCCCTCTTCTCGGCTGTGGTGGCCCCGCCGCTGGGCCGAGGCT
 CAGTCAGTGACTGTAGTGATGGCACGTCAGAGCTGGAGGAACCGCTGGGAGAGGATCCCCGCGCCCGACCACCCG
 GCCCTCCGGATCTGGGTGCCCTTCCGAGGGCCCCCGCTGGCCCCGCTGCCCCATGACCCCTGGTGTCTTCCGAGTCT
 ATCCCCGGCTCGGGGTGGCCCTGAACCCCTCAGCCCCCTCCCTGTGTGCGCTCTGGCCGGTCTTGATCCCTGC
 TGCCCCCTCAGCTCTCCCCGGCTCTGCCCATGACGCCACCCACCTGGCCCTACACTCCCTCGCCACGCTGAGCC
 CGATGTACCCAGTGGTGGCGGGGGGCCAGCGGCTCAGGGGGAGGCTCCCACTTCTCCTTCAGCCCTGAGGACA
 TGAAACGGTACCTGCAGGCCCCACCCAAAGCGTCTACAACCTACCACCTCAGCCCCCGCGCCTTCTTGCACTACC
 CTGGGCTGGTGGTGCCCCAGCCCCAGCGCCCTGACAAGTGCCCGCTGCCGCCCATGGCACCCGAGACCCACCGG
 TCCCTCTCTCGGCTCGTCATCCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
 GACGCCGCGCAGCGGCAGCTGGGGAGAAGGCCGTAGCCGCTGCTGACAAGAGCGGTGGCAGTGACGGCGGGCTGG
 CTGAGGGGGCAGGGGCGCTAGCCCCACCGCCCCGCCACCACAGATCAAGGTGGAGCCCATCTCGGAAGGCGAGT
 CGGAGGAGGTAGAGGTGACTGACATCAGTGATGAGGATGAGGAAGACGGGAGGTGTTCAAGACGCCCCGTGCC
 CACCTGCACCCCCCTAAGCCTGAGCCCGCGCAGGCACCCGGGGCATCCAGTGCAATGCCCTCAAGCTACGCTTTA
 AGCGGCGCTGGAGTGAAGACTGTCGCTCGAAGGGGTGGGGGCCCGCTGGGGGCTTTGAGGATGAGGGTGAGG
 ACAAGAAGGTGCGTGGGGAGGGGCTTGGGGAGGCTGGGGGGCCCCCTACCCCCAAGGCGGGTGAGCTCTGACCTCC
 AGCATGCCACGCCCAGCTCTCCCTGGAGCACCGAGACTCCTGAGGGCTGTGGGCAGGGGACCTGTGTGCCCCGC
 ACCCCCCATGCTTCTTTTGCTGCCTTAAGCCCCCTATGCCCTGGAGGTGAGGGCAGCTCTCTTGCTCTTCCCTG
 CCTCTCCCTTTTCCCTCCCCACATTTTGTATAAACTTTAATTTCTTTTTTTTAAAAATGGTGGGGGTGGGTGG
 GTGCCCAGGGCTAGGGGCTATTCCCTGTCTCTGTGGGTTTCTAAGCTCTGGGCAAAATTGGTGGTAGGGGGAGGGA
 GGGGGAAGTTAAGGGGGTCACTCCATTCTGGGGAATTTATATTGAATTGAGGCTTTGGCCTTAACACCCAGGA
 ACTTTTCTATTACAATCGCTTAGGAAGTAAAGCCTTGCTCCCTCCCTGTCTCTGCTCTTGTAACCCCTCTGAC
 CCACCCGCTCTGCCCCACTCCCAGCCCTCCTCAGCCCCAGCCCTGCCTGCCCTGCCCTTCCAGGGGGCCATGAGT
 GCCTAGGTTTCTCATACCCACAAGGTACACAGCAGGGGAGGGAGGGACAATTTTATAATGAACCAAAAAATTCAT
 GTGTTGGGGGGTGGGGGGCGGAGGAGGGTGAGGGGTGCCGCCCATGGGCCACAAATCTCTACAAGTGCTGTAT
 CCTCTCCCACTCCCCACCCAGCACCGGTCCAACCCCTTCATCCCCAGCTGCTCCTAGGACTGGCCCATGGGCA
 GCGGGTGGGGGGATGGGAAGGGGGTGCCCTGAAACCAAACCTGGAAGCCCCCTCTGCCTCCAGCTGGGGCCTCT
 GGGGTGGGGTGGGGGGCTGTGGTCAAGCCTTATTCTGTATTGGGGACTGAGGGTGGGGGGAGTAGAGGGGCCGT
 GGAGAAATGTATTCAAAACAATAAACTTTGGACCTTTGGAAAA

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FIGURE 5477

MKTPADTGFAFPDWAYKPESSPGSRQIQLWHFILELLRKEEYQGVIWQGDYGEFVIKDPDEVARLWGVRKCKPQ
MNYDKLSRALRYYYNKRILHKTGKRFTYKFNFNKLVLVNYPFIDVGLAGGAVPQSAPPVPSGGSHFRFPPSTPS
EVLSPTEDPRSPACSSSSSSSLFSAVVARRLGSGSVSDCSDGTSELEEPLGEDPRARPPGPPDLGAFRGPPLARL
PHDPGVFRVYPRPRGGPEPLSPFPVSPLAGPGSLLPPLSPALPMTPTHLAYTPSPTLSPMYPSSGGGGPSGSGGG
SHFSFSPEDMKRYLQAHTQSVYNYHLSPRAFLHYPLVVPQPQRPDKCPLPPMAPETPPVPSSASSSSSSSSSPF
KFKLQRPPLGRRQRAAGEKAVAAADKSGGSAGGLAEGAGALAPPPPPQIKVEPISEGESEEEVETDISDEDEED
GEVFKTPRAPPAPPKPEPGEAPGASQCMPLKLRFKRRWSEDCRLEGGGGPAGGFEDEGEDKKVRGEGPGEAGGPL
TPRRVSSDLQHATAQLSLEHRDS

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FIGURE 5478

AGCCGTGCTCAGAAAGTTTCTGGATCCCAGGCTCATCTCCACAGAGGAGAACACGCAGGCAGCAGAGACCATGGG
GCCCATCTCAGCCCCCTTCTGTCAGATGGCGCATCCCCTGGCAGGGGCTCCTGCTCACAGCCTCACTTTTACCTT
CTGGAACCCGCCCACCACTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGAGGGGAAGGAGGTTCT
TCTACTTGTCCACAATCTGCCCCAGGACCCTCGTGGCTACAACCTGGTACAAAGGGGAAACAGTGGATGCCAACCG
TCGAATTATAGGATATGTAATATCAAATCAACAGATTACCCCAGGGCCTGCATACAGCAATCGAGAGACAATATA
CCCCAATGCATCCCTGCTGATGCGGAACGTACCAGAAATGACACAGGATCCTACACCCTACAAGTCATAAAGCT
AAATCTTATGAGTGAAGAAGTAACTGGCCAGTTTACGCTACATCCGGAGACTCCCAAGCCCTCCATCTCCAGCAA
CAACTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTACCTGTGAACCTGAGACTCAGAACACAACCTACCT
GTGGTGGGTAAATGGTCAGAGTCTCCCGGTCAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCT
ACTCAGTGTCAACAAGGAATGACGTAGGACCCTATGAATGTGAAATACAGAACCCAGCGAGTGCAAACCTTCAGTGA
CCCAGTCACCCCTGAATGTCTCTATGGCCCAGATGCCCCACCATTTCCTTTCAGACACCTATTACCATGCAGG
GGTAAATCTCAACCTCTCCTGCCATGCGGCCTCTAATCCACCCTCACAGTATTCTTGGTCTGTCAATGGCACATT
CCAGCAATACACACAAAAGCTCTTTATCCCCAACATCACTACAAAGAACAGCGGATCCTATGCCTGCCACACCAC
TAACTCAGCCACTGGCCGCAACAGGACCACAGTCAGGATGATCACAGTCTCTGATGCTTTAGTACAAGGAAGTTC
TCTGGCCTCTCAGCTAGAGCCACTGTGAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATATAGTAGCT
CTGGTGTAGTTTCTGCATTTCAAGAAGACTGGCAGACAGTTGTTTTTTATTCTTCCTCAAAGCATTGCAATCAGC
TACCATTCAAAATTGCTTCTTCTTCAAGATTTATGGAAAATACTCTGACGAGTACTCTTGAACACAAGTTCTCTGA
TAACTTTAAGATCACGCCACTGGACTGTCTATGAACTTGCAAACAGGCTGATACCTTTGTGAAGTTGCCACCAA
AACACAGAAGGAAAAAACATGAATTTTATTGAACTAAATAATAATGAGGATAATGTTTTTAAGATTTTTTTTTT
TTTTTGAGATGGAATCTCGCTCTGTGCCCCAGGCTGGAGTGCAGTGGCACGATCTCAACTCACTGCAAGCTCCGC
CTCCTGGGTTACACCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCTGCCACAACGCCCGG
CTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCAATCTCCTGACTTCATGGTCCGCCTGCCT
CAGCCTCCCAAAGTTCTGGGATTACAGGTGTGAGCCACCGCGCCAGCCCGTTTTTAAGATTTTTTATTTGAAAA
ATTGCCAATTCTTTAAGTGTTTTCTTTTTTCAAGATTTATGAATTTCTTTATCTTTTAAGCTATCTATACCTTACTG
CAATTTGGTAAAGCAGACTTTTGTGAACAAAAATTATAACATTTACTTTTGCTCCCTACCTGACTGCCACAGAAC
TGGGCAACTATTTCATGAGTATTCATATGTTTATGGTAATTCAGTTATTTGCACAAGTTCAGTGAGAATCTGCTGT
CTTTATAATGGGATATAGTTTAAAACATTGGTTATATTACCAAGGCTTTGATTGGGATGTTATATTGAGAAAAT
ACAGAGAATGATAGATTAACGGAGTGTCTAATCTATCGTGTCAACCCCAAATTTTTTACGTATGAGATCCTTTAGT
CCACCCAATGGCTGACAGTAACAGCATCTTTAACACAACCTCTTTGTTCAAATGTACTATGGTCTCTTTTAGAGTC
AGACTCCTAGACTCACTTGTTCTCACTGTCTGTTTTAATTTAACCAGGCATGCAATGCTAGATAATAAAATTGC
TCCCTATTGGCTGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5479

MGPI SAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLL VHNLPQDPRGYNWYKGETVDA
NRRIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEV TGQFSVHPETPKPSIS
SNN SNPVEDKDAVAFTCEPETQNTTYLWWVNGQSLPVSPRLQLSNGNRTL TLLSVTRNDVGPECEIQNPASANF
SDPVTLNVLYGPDAPTISP SDTYHAGVNLNLSCHAASNPPSQYSWSVNGTFQQYTQKLFIPNITTKNSGSYACH
TTNSATGRNRITVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

5943/6881
FIGURE 5480

ATGATGGCGTATATGAACCCGGGGCCCCACTATTCTGTCAACGCCTTGGCCCTAAGTGGCCCCAGTGTGGATCTG
ATGCACCAGGCTGTGCCCTACCCAAGCGCCCCAGGAAGCAGCGGCGGGAGCGCACCACCTTCACCCGGAGCCAA
CTGGAGGAGCTGGAGGCACTGTTTGCCAAGACCCAGTACCCAGACGTCTATGCCCCGTAGGAGGTGGCTCTGAAG
ATCAATCTGCCTGAGTCCAGGGTTCAGGTTTGGTTCAAGAACCGGAGGGCTAAATGCAGGCAGCAGCGACAGCAG
CAGAAACAGCAGCAGCAGCCCCAGGGGGCCAGGCCAAGGCCCGGCCTGCCAAGAGGAAGGCGGGCACGTCCCCA
AGACCCTCCACAGATGTGTGTCCAGACCCTCTGGGCATCTCAGATTCCTACAGTCCCCCTCTGCCCCGGCCCCCTCA
GGCTCCCCAACCACGGCAGTGGCCACTGTGTCCATCTGGAGCCCAGCCTCAGAGTCCCCCTTTGCCTGAGGCGCAG
CGGGCTGGGCTGGTGGCCTCAGGGCCGTCTCTGACCTCCGCCCCCTATGCCATGACCTACGCCCCGGCCTCCGCT
TTCTGCTCTTCCCCCTCCGCCTATGGGTCTCCGAGCTCCTATTTACGCGGCCTAGACCCCTACCTTTCTCCCATG
GTGCCCCAGCTAGGGGGCCCGGCTCTTAGCCCCCTCTCTGGCCCCCTCCGTGGGACCTTCCCTGGCCCAGTCCCCC
ACCTCCCTATCAGGCCAGAGCTATGGCGCCTACAGCCCCGTGGATAGCTTGGAATTCAAGGACCCACGGGCACC
TGGAAATTCACCTACAATCCCATGGACCCTCTGGACTACAAGGATCAGAGTGCCTGGAAGTTTCAGATCTTGTAG

5944/6881
FIGURE 5481

MMAYMNP GPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEEELEALFAKTQYPDVIYAREEVALK
INLPESRVQVWFKNRRRAKCRQQRQQQKQQQQPPGGQAKARPAKRKAGTSPRPSTDVCPDPLGISDSYSPPLPGPS
GSPTTAVATVSIWSPASESPLPEAQ RAGLVASGPSLTSAFYAMTYAPASAFCS SPSAYGSPSSYFSGLDPYLSPM
VPQLGGPALSP LSGPSVGPSLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKDQSAWKFOIL

5945/6881
FIGURE 5482

TGACAAGATGGCGGCAGGAGGCAGTGGCGTTGGTGGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTCCT
GGGGCTGCGGCCCACCTTCGGTGGACCCAGCGCTGAGGCGGCGGCGGCGAGGCCCAAGAAATAAGAAGCGGGGCTG
GCGGCGGCTTGCTCAGGAGCCGCTGGGGCTGGAGGTTGACCAGTTTCTTGGAAAGACGTGCGGCTACAGGAGCGCAC
GAGCGGTGGCTTGTTGTCAGAGGCCCAATGAAAACTCTTCTTCGTGGACACTGGCTCCAAGGAAAAAGGGCT
GACAAAGAAGAGAACCAGTCCAGAAGAAGTCACTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCTCGA
GAACACATCCAAAGTCCCTGCCCCAAAGACGTCTCGCCACCAGGTCCCCAACGCCAAGAAGCTCAGGCGGAA
GGAGCAGCTATGGGAGAAGCTGGCCAAGCAGGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAGGCCCGGCTCCT
CAACCCCTTCTGCAACAAGGGCCAAGCCCCGGGCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTC
AGACAACCCCTGGACAGGCCGTTGGTTGGCCAGGATGAGTTTTTCTTGGAGCAGACCAAGAAGAAAGGAGTGAA
GCGGCCAGCACGCCTGCACACCAAGCCGTCCAGGCACCCGCCGTGGAGGTGGCGCTGCCGGAGCTTCCTACAA
TCCATCCTTTGAAGACCACCAGACCCTGCTCTCAGCGGCCACAGAGGTGGAGTTGCAGCGGCAGAAAGGAGGCGGA
GAAGCTGGAGCGGCAGCTGGCCCTGCCCGCCACGGAGCAGGCCGCCACCCAGGAGTCCACATTCAGGAGCTGTG
CGAGGGGCTGCTGGAGGAGTCGGATGGTGAAGGGGAGCCAGGCCAGGGCGAGGGGCCGGAGGCTGGGGATGCCGA
GGTCTGTCCCACGCCCGCCCGCTGGCCACCACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGGAGAAGGCTGT
GCACAGGCTGCGGGTACAGCAGGCCGCGTTGCGGGCCGCCCGGCTCCGGCACCCAGGAGCTGTTCCGGCTGCGCGG
GATCAAGGCCCCAGGTGGCCCTGAGGCTGGCGGAGCTGGCGCGGCGGCAGAGGCGGCGGCAGGCGCGGCGGGAGGC
TGAGGCTGACAAGCCCCGAAGGCTGGGGCGGCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGA
GCTGACAGACTCGCTCAGGACCCTGAAGCCCGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCAGAGGAG
GAATATGATCGAGCCTCGAGAGAGAGCCAAGTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTT
CCGTGAGATCCAGTTGTAGCTGCCATCAGATGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTG

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FIGURE 5483

CGTCTCTCCGTGAACCCCGTGAGCGGTGTGCAGCCACCATGTTTCAGCTGGCTGAAGCGGGGCGGGGCACGGGGCC
AGCAGCCCGAGGCCATCCGCACGGTGACCTCGGCCCTCAAGGAGCTGTACCGCACGAAGCTGCTGCCGCTGGAGG
AGCACTACCGCTTTGGGGCCTTCCACTCGCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCATGGTGCTGG
TGGCCGGCCAGTACAGCACGGGCAAGACCAGCTTCATCCAGTACCTGCTGGAGCAGGAGGTGCCGGGCTCCCGCG
TGGGGCCTGAGCCACACCGACTGCTTTGTGGCCGTCATGCACGGGGACACTGAGGGCACCCTGCCCGGCAACG
CCCTCGTTCGTGGACCCGGACAAGCCCTTCCGCAAACTCAACCCTTTTCGAAAACACCTTCCTCAACAGGTTTCATGT
GTGCCCAGCTCCCTAATCAGGTCCCTGGAGAGCATCAGCATCATCGACACCCCCGGGTATCCTGTTCGGGTGCCAAGC
AGAGAGTGAGCCCGGGCTACGACTTCCCGGCCCGTGCTGCGCTGGTTTCGCGGAGCGCGTGGACCTCATCATCCTGC
TCTTTGATGCGCACAAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGGCCATGAGGACA
AGATCCGCGTGGTGCTCAACAAGGCCGACATGGTGAGACGCAGCAGCTGATGCGCGTCTACGGCGCGCTCATGT
GGGCGCTGGGCAAGGTGGTGAGGACGCCCCGAGGTGCTGCGCGTCTACATCGGCTCCTTCTGGTCCCAGCCCCCTCC
TCGTGCCCCGACAACCGGCGCCTCTTCGAGCTGGAGGAGCAGGACCTCTTCGCGACATCCAGGGCCTGCCCCGGC
ACGCAGCCTTTCGCAAGCTCAACGACCTGGTGAAGAGGGCCCCGGCTGGTGCGAGTTCACGCTTACATCATCAGCT
ACCTGAAGAAGGAGATGCCCTCTGTGTTTGGGAAGGAGAACAAGAAGAAGCAGCTGATCCTCAAACCTGCCCGTCA
TCTTTGCGAAGATTTCAGCTGGAACATCACATCTCCCCTGGGGACTTTCCTGATTGCCAGAAAATGCAGGAGCTGC
TGATGGCGCACGACTTCACCAAGTTTCACTCGCTGAAGCCGAAGCTGCTAGAGGCACTGGACGAGATGCTGACGC
ACGACATCGCCAAGCTCATGCCCCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGAGGGGGGCG
CTTTTGAGGGCACCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCGAGGAGGGCT
CGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCCTG
CCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGC
GCATCTGGAAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAGGAGTTCGCGCTGGCCAGCCACCTCA
TCGAGGCCAAGCTGGAAGGCCACGGGCTGCCCGCCAACCTGCCCCGTGCGCTGGTGCCACCCTCCAAGCGACGCC
ACAAGGGCTCCGCCGAGTGAGCCGGCCCCCTCCCATGGCCCTGCTGTGGCTCCCCAGCTCCAGTCGGCTGCACG
CACACCCCTGCTCCGGCTCACACACGCCCTGCCTGCCCTCCCTGCCCAGCTGTAAGGACCGGGGGTCTCCCTCCT
CACTACCGCCAGACACCCCGGTGGAAGCATTTAGAGGGGACCACGGGAGGGACAAGGCTTCTCTGTCCGCCCTTC
ACACCTCCAGCCTCACGTTCACTTAGGCACATCACACACACACTGGCACACGCAGGCATCCATCCATCCGTCATT
CATTCAAATATTTATTGAGCACCTACTATGTGCCAGCCCTGTTCTAGGCACTGGGCATTACCATAGAGAACAAA
ATAGACAAATACATCTGCCCTCATGGAAGGTGACGTTCCAGGAGAGGGCACCTACACAGTCACGCAAACACACA
CTAATTCTTGGCAGGGCCCCCAGCCCTCCCCTGGCTGAGCAGCCCTGTGGCTGAAATGACTAGCAGATAAACAG

5947/6881
FIGURE 5484A

CTCGTAGCTCCACTCTGCAGCCTCAAACCTCCTGGGCTCCAGTGATCCTCTCACCTCAGCCTCCCAAGTAGCTAAG
ACCACAGGCACATGCTGCCACCCCTGACTAATTTTTCTTTTTTAAAATTTTTTCTCACTGCGTTGCCCAGGCTG
GTCTCAAACCTCTTTGGCTCAAGCCATCCATCCTCCTACCTCAGCCTCCCAAAGTGCTGAGATTACAAGCGTGAAC
CACCATGCCAGGAGGGAATGTTCTTTCTTGAACGTGGCTGCCCTGTACCTCAGCATTCTTTGCGGCAGCTGTGG
CCTAAGCGTAGCCCCCTTGCTAACCTCAGCTCTTTCTTTCCACCTTTCCCGGCCTGCAGCTCCATGTGCAAGAAG
CTTCCGGCAACCACCTGAACCCAGAGCCCAACCAGCCGGCCCCCAGTGTTGGACCTAGACTTCTTGGAAGATGACA
TCCTGGGCTCTCCTGCGACAGGGGGCGGGCGGGGGGCGAGTGGGGGGCGCTGACCAGCCCTGTGACATCCTCCAGC
AGAGCCTCCAAGAGGCCAACATCACGGAGCAGACGCTGGAGGCCGAGGCTGAGCTGGACCTGGGTCCCTTCCAGC
TGCCCCACCTGCAGCCTGCGGATGGCGGGGCAGGCCCCGACGGGCGCTGGAGGGGCAGCGGCCGTGGCTGCGGGGC
CCCAAGCCCTCTTCCAGGCAGCACCGACCTGCTGGGGCTGCAGGGCCCCGCTACCGTGCTGACCCACCAGGCC
TGGTGCCGCCCCAGGACGTGGTCAACAAGGCCCTGAGTGTGCAGCCCTTCTGCAGCCTGTGGGCTGGGCAATG
TGACACTGCAGCCCATCCCGGGCCTCCAAGGCCTGCCCAATGGCAGCCCTGGGGGTGCCACGGCGGCCACACTGG
GCCTGGCGCCCATCCAGGTGGTGGGCCAGCCCGTCATGGCGCTCAACACGCCCCACCTCCCAGCTCCTGGCCAAGC
AGGTGCCCGTGCAGCGGCTACCTGGCCTCGGCGGCTGGCCCCCTCGGAGCCCGTGACGCTGGCGTGGGCCGGTGTCT
CGCCACAGGGGGCTGGCCTGGTCATCCAGAAGAACCTCTCGGCCGCTGTGGCCACCACGCTCAATGGGAACCTGTG
TGTTGCGAGGCGCGGGGGCGCCTCGGCTCCCACGGGACGCCCTCGGGACAGCCGCTGGCGGTGGCCCCAGGCC
TCGGCTCGTGCCTACTGGTCCCGGCGCCCAACGTGATCCTGCATCGCACACCCACGCCCCATCCAGCCCAAGCCCG
CGGGGGTGTGCGGCCCAAGCTCTACCAGCTGACGCCCAAGCCGTTTGCGCCCGCGGGCGCCACGCTCACCATCC
AGGGCGAGCCGGGGGCGCTCCCGCAGCAGCCCAAGGCCCGCAGAACCTGACGTTTATGGCGCGGGGAAGGCGG
GCCAGAACGTGGTGTGTGCGGGCTTCCCGCGCCTGCGCTGCAAGCGAACGTCTTCAAGCAGCCACCGGCCACCA
CCACCGAGCGGGCCCCGCGCAGCCCCCGGGGCCCTGAGCAAACCCATGAGCGTCCACCTCCTGAACCAAGGCA
GCAGCATCGTCATCCCCGCCCAGCACATGCTGCCGGGCCAGAACCAGTTTCTACTGCTGGCGCCCCGCGGTCC
AGTCCCCGAGCAGCTCTCAGCCCTGCCGGCCAACGTGGGCGGGCAGATCCTGGCGGCCGCTGCCCCCACACAG
GTGGACAGCTCATCGCAACCCCATCCTCACAACCAGAACCTGGCGGGGCCACTGAGCCTGGGCCCCGTGTTGG
CCCCCACTCCGGGGGCCACAGCGCGCACATCCTCTCCGCCGCTCCCATCCAGGTGGGCCAGCCTGCGCTCTTCC
AGATGCCCGTGTGCTGGCGGGCGGCAGCCTGCCACGCAGAGCCAGCCAGCGCCCCGCGGGCGCGGCCACCA
CTGTCTCCAGGGGGTACCCCTGCCCCCAGCGCCGTGGCCATGCTCAACACCCCCGACGGCCTGGTGACCCGG
CCACCCCTGCCGCTGCCACCGGGGAGGCGCGCCTGTCTCAGGTGCAGCCTGCCCCCAGGCGCCCCCAGGCCG
TCAGCACACCCCTGCCCCTGGGCCTCCAGCAGCCGCAGGCGCAGCAGCCCCCGCAGGCCCCCAGCCACAGGCCG
CCGCCCCGCTCAGGCCACCACCCCCAGCCAGCCCTGGCCTGGCGTCTAGCCCGGAGAAGATCGTCTGGGGC
AGCCGCCCTCTGCCACCCCCACGGCCATCCTCACTCAGGACTCCCTGCAGATGTTCTGCCCCAGGAGAGGAGCC
AGCAGCCCCCTCTCCGCAGAGGGCCCCACCTCTCCGTGCCTGCCTCGGTTCATAGTCAGCGCCCCGCTCCCGCCC
AAGACCCAGCCCCAGCCACCCCGTGCCTAAAGGAGCTGGCCTCGGCCCTCAGGCCCCGACAGCCAGGCTTCCC
CGGCTCCGGCCCCCAGATCCCGGCAGCGGCTCCGCTGAAGGGGCCAGGCCCTCTTCGTCCCCGTCACTACCTC
ACCAGGCCCTCTGGGGGACAGCCCCACCTGCCCTCCCCACACCCACCCGGCCCCCTTCCCGCCACCCCTCCC
GGCCACAGAGTGTGTCCCGCCCTCCCTCAGAGCCACCCTTGACCCCTTGCCCCCAGCCAGCCCCCAACTC
TGCTGGCATCTTTGTATCCAAAACAGCTAGGCGTTCCCCCGCCTGCCAGCAACCCGGCCCCCTACTGCCCCAG
GCCGCGCAGCCGCTCTCCGCCCCAGTCCCAGCGCCTGAGGGACCGCTGCCCCCAGCCCCCAGCTCCCTC
CATCTCCACCTCCTCTGCTGTGGCCTCCTCTCTGAGACGCTCCTCCAGGTTGCCAGCCCTACGCCATCCGACT
TCCAGCTCCAGTTCCACCCAGCCAGGGGCCCAAGTCCCCCACTCCCCCTCCAACCTCCACCTGGTCCCTG
AGCCGGCAGCACCCCCCCACCGCTCCTCGGACCTTCCAGATGGTGACCACCCCTTCCAGCGCTGCCCCAGC
CGAAGGCTCTTCTCGAGAGATTTACCCAGGTGCCGTCCGGAATCATCTCCAGAACAAAGGCTGGGGGGGCCCCCTG
CCGCCCCGAGACCTCCACAGCCTGGGGCCCCCTACCAGCCCCGCTGCGTCTGTGCTGGTCACTGGGCAGGCC
CATCTGGGACCCCACTGCCCCAGCCAGCCCCCGCCCCGGCACCCATGGCCGCCACAGGCCTCCCTCCTCTGC
TTCCAGCCGAGAACAAAGGCTTTTGCCAGCAACCTCCCGACCTGAATGTGGCCAAGGCCGCTTCTCCGGGCCAG
GGAAGCCCTCCGGGCTGCAGTATGAGAGCAAACCTGAGTGGCCTGAAGAAGCCCCCAGCTTCAGCCCAGCAAGG
AAGCCTGTTCTGAGGATTTGCACAAACACAGGGCTCCGTCTGCACCCGACTACAAGACGGCCTTCCCTC
CCTTTGAGGACGCCCCTGCATCGCCTCCTGCCCTACCATGTCTACCAGGGCGCCCTCCCCCTCCCCAGTGACTACC

FIGURE 5484B

[illegible]

5949/6881
FIGURE 5485

GCGGCTGAGTCTTCCCAGGGTCAGGGTCAGGCGCTTTGCTGAGTCCCTTTGTGGCCGCCATGGACAATTCCGGGA
AGGAAGCGGAGGCGATGGCGCTGTTGGCCGAGGCGGAGCGCAAAGTGAAGAACTCGCAGTCCTTCTTCTCTGGCC
TCTTTGGAGGCTCATCCAAAATAGAGGAAGCATGCGAAATCTACGCCAGAGCAGCAAAACATGTTCAAAATGGCCA
AAAACCTGGAGTGCTGCTGGAAACGCGTTCTGCCAGGCTGCACAGCTGCACCTGCAGCTCCAGAGCAAGCACGACG
CAGCCACCTGCTTTGTGGACGCTGGCAACGCATTCAAGAAAGCCGACCCCAAGAGGCCATTAACTGTTTGATGC
GAGCAATCGAGATCTACACAGACATGGGCGGATTACGATTGCGGCCAAGCACCACATCTCCATTGCTGAGATCT
ATGAGACAGAGTTGGTGGACATCGAGAAGGCCATTGCCCACTACGAGCAGTCTGCAGACTACTACAAAGGCGAGG
AGTCCAACAGCTCAGCCAACAAGTGTCTGCTGAAGGTGGCTGGTTACGCTGCGCTGCTGGAGCAGTATCAGAAGG
CCATTGACATCTACGAACAGGTGGGGACCAATGCCATGGACAGCCCCCTCCTCAAGTACAGCGCCAAAGACTACT
TCTTCAAGGCGGCCCTCTGCCACTTCTGCATCGACATGCTCAACGCCAAGCTGGCTGTCCAAAAGTATGAGGAGC
TGTTCCCAGCTTTCTCTGATTCCCAGGAATGCAAGTTGATGAAAAAATTGCTAGAGGCCACGAGGAGCAGAATG
TGGACAGCTACACCGAGTCGGTGAAGGAATACGACTCCATCTCCCGGCTGGACCAAGTGGCTCACCACCATGCTGC
TGCGCATCAAGAAGACCATCCAGGGCGATGAGGAGGACCTGCGCTAAGCCCCACCCAGCCCCCAGTGGCCGTCT
TCCTGTCCCATCTGCTCAGAGAGAGCCAAGCTCTAAAGCACATGTAGCCGCTGAGACCTGCTGTTTCTGCTGGGG
GCAGGCTCCTCTTCCCCCAGCCCCGGGAGCCTCCCCAGCTTCTGCGAGCCCCGACCTCTCAGGTTAGACCCTGG
GCCCTGGAGCTTAGGGGATTCTCCCCACCCAGCCCCACACCTGCTCCTTCCCTAATGCTTTGAGGTTTTCTTGG
TTGGAAGCTGCAGCTGGCCCAAGAAAGAAAATAAAAAACAACACTTTTGC

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FIGURE 5486

TTGGCTTGAGCGGGACCGGAGCTGAGGCAGGAAGAGCCGGCGCCATGGTGGAGAAGGAGGAGGCTGGCGGCGGCA
TTAGCGAGGAGGAGGCGGCACAGTATGACCGGCAGATCCGCCTGTGGGGACTGGAGGCCAGAAACGGCTGCGGG
CCTCTCGGGTGCTTCTTGTCGGCTTGAAAGGACTTGGGGCTGAAATTGCCAAGAATCTCATCTTGGCAGGAGTGA
AAGGACTGACCATGCTGGATCACGAACAGGTAACCTCAGAAGATCCCGGAGCTCAGTTCTTGATTTCGTACTGGGT
CTGTTGGCCGAAATAGGGCTGAAGCCTCTTTGGAGCGAGCTCAGAATCTCAACCCCATGGTGGATGTGAAGGTGG
ACACTGAGGATATAGAGAAGAAACCAGAGTCATTTTTCACTCAATTCGATGCTGTGTGTCTGACTTGCTGCTCCA
GGGATGTCATAGTTAAAGTTGACCAGATCTGTCAAAAAATAGCATCAAGTTCTTTACAGGAGATGTTTTTGGCT
ACCATGGATACACATTTGCCAATCTAGGAGAGCATGAGTTTGTAGAGGAGAAAACTAAAGTTGCCAAAGTTAGCC
AAGGAGTAGAAGATGGGCCCCGACACCAAGAGAGCAAACTTGATTCTTCTGAGACAACGATGGTCAAAAAGAAGG
TGGTCTTCTGCCCTGTAAAGAAGCCCTGGAGGTGGACTGGAGCAGTGAGAAAGCAAAGGCTGCTCTGAAGCGCA
CGACCTCCGACTACTTTCTCCTTCAAGTGCTCTTAAAGTTCCGTACAGATAAAGGAAGAGATCCAGTTCTGATA
CATATGAGGAAGATTCTGAGTTGTTGCTCCAGATACGAAATGATGTGCTTGACTCACTGGGTATTAGTCCTGACC
TGCTTCTGAGGACTTTGTGAGGTACTGCTTCTCCGAGATGGCCCCAGTGTGTGCGGTGGTTGGAGGGATTTTGG
CACAGGAAATTGTGAAGGCCCTGTCTCAGCGGGACCTCCTCACAACAACCTTCTTCTTCTTCGATGGCATGAAGG
GGAATGGGATTGTGGAGTGCCCTTGGCCCCAAGTGAACCTCAAGATTTGGCAGCCCCAGAGATGCCAACTGCAGCAT
GCCCACCTGTATTCCCTGTCCCCCTTCCTTCATGAAGGCATCTCCAGGCAAGGAAAACCTGAAGTCATTGGCCCGAT
ACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGCTGCTCGACAAGGGG
CGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTGAGGCTGCCTGTATCCCGGGCCTGCCAGCTCCCCTGAGTGAT
GAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCTTATGCTGTCCCGGCTCGCCAGCCCTCTGGGGCATTG
TGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCTCTTGTACCTTCTTGGACTTATTCCCCA
CCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCAGGCCCATGAGGCACCAAGTGGAAAGCA
CAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGAAAACCATGACAGGCAAATGCATTTCTCTGGAGTTTGAGA
CCCTGACAAACAACAGGTGGCATCTGGTGTGCTGTTCTTGAGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGG
TTTTGGGAGAAAGGAGATGCTACCAAGTCTTGATGTTAGGGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTG
TCTTTCAAGGCAGGTTCTTGGGGCTTCAGGGCTAGGAGGGAGGAGCCTGCCCTTTTAACAGAACCCAGTCACAT
GCGGCTCAAGTCACTCAGAGGCTGTTGCATTTAGGGCTATGTTGGTCCTTTGTTTACCTCCTAAACCACAGCTG
TTTGTGTTTACATATGTTGTGAATTTCTTGGTTCTTTTTAAAGGAATGATAATAAAGTTACTTGCTTTAGGA
TTTGCTTGTTTTCTTCCACTTCAGAAGCTTCTGAGAGGGAATGGGATGATCCTACCAGTTGCCTTTTCAGACCT
GAGGCTCTA

5951/6881
FIGURE 5487

GTCATTGGCCCGATACAAAACATTTTCCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGC
TGCTCGACAAGGGGCGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTTCAGGCTGCCTGTCATCCCGGGCCTGCCAG
CTCCCCTGAGTGATGAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCTTATGCTGTCCCGGCCTCGCCAGC
CCTCTGGGGCATTGTGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTACCTTCTT
GGACTTATTCCCCACCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCCAGGCCCCATGAGG
CACCAGTGGAAGCACAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGCAGGTGGCATCTGGTGTGCTGTTCTTG
AGTTTTTCGTTTAGGATTAGTTGAGTTCAGCTGGGTTTTGGGAGAAAGGAGATGCTACCAAGTCTTGGATGTTAG
GGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTGTCTTTCAAGGCAGGTTCCCTGGGGCTTCAGGGCTAGGAGGG
AGGAGCCTGCCCTTTTAACAGAACCCAGTCACATGCGGCTCAAGTCACTCAGAGGCTGTTGC

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FIGURE 5488

TGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCCATGATCC
GCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGAGA
AACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGTTCC
GGAACTTTAAGATCATTACCGCCGCTATGCTGGCCTCTACTTCTGCATCTGTGTGGATGTCAATGACAACAACC
TGGCTTACCTGGAGGCCATTACAACTTCGTGGAGGTCTTAAACGAATATTTCCACAATGTCTGTGAAGTGGACC
TGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGACGAGATGTTCCCTGGCTGGCGAAATCCGAGAGACCAGCC
AGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTCCCTGGAGTGAGGGCAGGCGAGCCCCACCCCGGCCCGG
CCCCTCCTGGACTCGCCTGCTCGCTTCCCCTTCCCAGGCCCGTGGCCAACCCAGCAGTCCTTCCCTCAGCTGCCT
AGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAGGGAGGAGACTGCACCCCACTGCCTCTGGGCCCTGGCTGTG
GGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTGCCGTTGTCTGTGTATGCCATAAGCGTCTGTGCGTGGAGTC
CCCAATAAACCTGTGGTCCTGCCTGGC

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FIGURE 5489

GGCAGCCCCGGGAGGCTTTCTCTGGCTGGTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGG
GCCCCATCCCACCCTCCCGGACCTAAGAGCCTGGGTCCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCAGATT
CTGGCATCCCAGCCCTCAGTGTCGAAGACCCAGGCAGCCCGGGTCCCCGCCTCCCGGATCCAGGCGTCCGGGATC
TGCGCCACCAGAACCTAGCCTCCTGCAGACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCA
CGTCCCACCCAGAGAACTCTCGTATTCCCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACCTCCAGCTTT
CGGACATCTGGCACACGGGGCAGAGCAGAGAAGCCTCAGCGCCCAGCCTGGGGAATTTAAACACTCCAGCTTCCA
AGAGCCAAGGAACCTTCAGTGCTGTGAACCTACAACCTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTT
ACTCAACTCAGTCCTAGGAACGTCGGGTCTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGCTAAGA
AACCCCGGTGCTTCCCATCCATGGTGGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGCGGAGCCACCGC
CAACGGGGGCTGGCGCTGGCCTCCATCGAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCA
GGTGCGCCGCTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGG
ACTGGGGGTGTGCGGGGCGGGGGTGCCTGGCGTGGCGTGGGCGGAGCGCTTGAGCGCTTTCGTCTTCCCGGGCGA
GCTGCTGCTGCGTCTGCTGCGGATGATCATCTGCGCTGGTGGTGTGCAGCTTGATCGGCGGCGCGCCAGCCT
GGACCCCGGCGCGCTCGGCCGTCTGGGCGCCTGGGCGCTGCTCTTTTCTGGTCAACACGCTGCTGGCGTGGC
GCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGGCGCGCCTCCGCCGCCATCAACGCCTCCGTGGGAGCCGC
GGGAGTGCCGAAATGCCCCCAGCAAGGAGGTGCTCGATTGCTTCTGGATCTTGCGAGAAATATCTTCCCTTC
CAACCTGGTGTGACGAGCCTTTCGCTCATACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGGTGAA
GGTGGCCGTGGGGCAGGAGGTGGAGGGGATGAACATCTGGGCTTGGTAGTGTGGCCATCGTCTTGGTGTGGC
GCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCT
GGTCTCTGGATCATGTGGTACGCCCTGTGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGA
TGTGGGTTTACTCTTTGCCCGCTTGGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT
GGTACTGCCCCCTCATCTACTTCTCTTACCCCGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCT
GGCCACTGCCTTTGGGACCTCTTCCAGTTCCGCCACGCTGCCGCTGATGATGAAGTGCGTGGAGGAGAATAATGG
CGTGGCCAAGCACATCAGCCGTTTCATCCTGCCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCA
GTGCGTGGCCGAGTGTTTCAATTGCACAGCTCAGCCAGCAGTCCTTGGACTTCGTAAAGATCATCACCATCCTGGT
CACGGCCACAGCGTCCAGCGTGGGGGCAGCGGGCATCCCTGCTGGAGGTGTCCTCACTCTGGCCATCATCCTCGA
AGCAGTCAACCTCCCGGTGACCATATCTCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGT
CCTCAATGTAGAAGGTGACGCTCTGGGGGCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCAC
AGAGCCTGAGTTGATAACAAGTGAAGAGTGAGCTGCCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCC
CCTCCTCAAACACTATCGGGGGCCCCGAGGGGATGCCACGGTCGCCTCTGAGAAGGAATCAGTCATGTAAACCCC
GGGAGGGACCTTCCCTGCCCTGCTGGGGGTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCT
AGGGCTCTGGGGGTCTGCCTGCACACTCTGGGGAGCCAGGGGGCCCAGCACCCCTCCAGGACAGGAGATCTGGGAT
GCCTGGCTGCTGGAGTACATGTGTTTACAAGGGTTACTCCTCAAACCCCCAGTTCTCACTCATGTCCCCAACTC
AAGGCTAGAAAACAGCAAGATGGAGAAATAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCCTGTC
TCAGGGAGCAGGTACAGGTACCATGGGGAATTCTAGCCCCACTGGGGGGATGTTACAACACCATGCTGGTTA
TTTTGGCGGCTGTAGTTGTGGGGGATGTGTGTGTGCAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTTCTGTGACCTCCTGTCCCCATGGTACGTCCACCCTGTCCCAGATCCCCTATTCCCTCCACAATAACAGAAA
CACTCCCAGGGACTCTGGGGAGAGGCTGAGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTTAGCAATA
AAATTGAGTGTCAACTATTT

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FIGURE 5490

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELLRLLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE
VEGMNILGLVVFAIVFGVALRKLGPPEGELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAHGLLVPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQSLDFVKIITILVTATASSVGAAGIPAGGVLTLAITLEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEPELIQVKSELPLDPLPVPTEEGNPLLKHRY
GPAGDATVASEKESVM

GTAAACCGCTACTCCCGGACACACGACCACCGCCTTCGGTACACAGGGGCCCGCATCCCACCCTCCCGGACCTAAG
AGCCTGGGTCCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCAGATTCTGGCATCCCAGCCCTCAGTGTCCAAGA
CCCAGGCAGCCCGGGTCCCCGCCCTCCCGGATCCAGGCGTCCGGGATCTGCGCCACCAGAACCTAGCCTCCTGCAG
ACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCACGTCCCACCCAGAGAACTCTCGTATT
CCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACCTCCAGCTTTTCGGACATCTGGCACACGGGGCAGAGCAG
AGAAGCCTCAGCGCCAGCCTGGGGAATTTAAACACTCCAGCTTCCAAGAGCCAAGGAACCTCAGTGTGTGAAC
TCACAACTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTTACTCAACTCAGTCCTAGGAACGTGGGG
CCTGGGAAGGAGCCCAAGCGCTCCCAGCCAGCTTCCAGGCGCTAAGAAACCCCGGTGCTTCCCATCATGGTGGCC
GATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGGCGGAGCCACCGCCAACGGGGGCTGGCGCTGGCCTCCATC
GAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCAGGTGCGCCGCTGCCCTTCGAGCCAACCTG
CTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGGACTGGGGGTGTGGGGGGCCGGGGGTGCG
CTGGCGTTGGGCCCCGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCGAGCTGCTGCTGCGTCTGCTGCGGATGATC
ATCTTGCCGCTGGTGGTGTGCAGCTTGATCGGCGGCGCCGCCAGCCTGGACCCCGGCGCGCTCGGCCGCTCTGGGC
GCCTGGGCGCTGCTCTTTTTCTGGTCAACACGCTGCTGGCGTCGGCGCTCGGAGTGGGCTTGGCGCTGGCTCTG
CAGCCGGGCGCCGCCCTCCGCCGCCATCAACGCCTCCGTGGGAGCCGCGGGCAGTGCCGAAAATGCCCCAGCAAG
GAGGTGCTCGATTCTGTTCTGGATCTTGCGAGAAATATCTTCCCTTCCAACCTGGTGTGACGAGCCTTTCGCTCA
TACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGTGAAAGTGCCCGTGGGGCAGGAGGTGGAGGGG
ATGAACATCCTGGGCTTGGTAGTGTTTGCCATCGTCTTTGGTGTGGCGCTGCGGAAGCTGGGGCTTGAAGGGGAG
CTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTCTGGTCTCCTGGATCATGTGGTACGCCCC
TGGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGATGTGGGTTTACTCTTTGCCCGCCTTGGC
AAGTACATTCTGTGCTGCCGTGCTGGGTACGCCATCCATGGGCTCCTGGTACTGCCCTCATCTACTTCTCTTC
ACCCGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACCCGCTGGCCACTGCCCTTGGGACCTCTTCCAGT
TCCGCCACGCTGCCGCTGATGATGAAGTGCCTGGAGGAGAATAATGGCGTGGCCAAGCACATCAGCCGTTTCATC
CTGCCCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCAGTGCCTGGCCGCAGTGTTCAATTGCACAG
CTCAGCCAGCAGTCTTGGACTTCGTAAAGATCATCACCATCCTGGTCACGGCCACAGCGTCCAGCGTGGGGGCA
GCGGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCTCGAAGCAGTCAACCTCCCGGTGACCATATC
TCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGTCTCTCAATGTAGAAGGTGACGCTCTGGGG
GCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCACAGAGCCTGAGTTGATACAAGTGAAGAGT
GAGCTGCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCCCTCCTCAAACACTATCGGGGGGCCGCA
GGGGATGCCACGGTGCCTCTGAGAAGGAATCAGTCATGTAAACCCCGGGAGGGACCTTCCCTGCCCTGCTGGGG
GTGCTCTTTGGACACTGGATTATGAGGAATGGATAAAATGGATGAGCTAGGGCTCTGGGGGTCTGCCTGCACACTC
TGGGGAGCCAGGGGGCCCCAGCACCCCTCAGGACAGGAGATCTGGGATGCCTGGCTGCTGGAGTACATGTGTTTAC
AAGGGTTACTCCTCAAACCCCCAGTTCTCACTCATGTCCCCAACTCAAGGCTAGAAAACAGCAAGATGGAGAAA
TAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCTGTCTCAGGGAGCAGGTCACAGGTCACCATGG
GGAATTCTAGCCCCCACTGGGGGGATGTTACAACACCATGCTGGTTATTTTGGCGGCTGTAGTTGTGGGGGGATG
TGTGTGTGCACGT
GTCCCACCCCTGTCCCAGATCCCCCTATTCCCTCCACAATAACAGAAACACTCCCAGGGACTCTGGGGAGAGGCTG
AGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTTAGCAATAAAATTGAGTGTCAACTATTT

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FIGURE 5492

ATGATGGAGGAGCGAGCGGCCGCGCGGTGCGCCGCCGCCGCTCCTCCTGCCGTCCGCTCGGCTCAGGCGCGGGC
CCTGGCCCCACTGGGGCGGCCCGGTCTCCGCCCTGCCCCGGGCGGGCCCGGCAGGTAAGGGAGGCGGCGGC
GGAGGCAGCCCCGGGCCACGGCGGGCCCGGAGCCCCTGAGCCTGCCGGGGATCCTGCACTTTATCCAGCACGAG
TGGGCGCGCTTCGAAGCCGAGAAAGCCCGCTGGGAGGCCGAGCGCGCCGAGTTACAGGCTCAGGTGGCCTTCCTT
CAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGGCGGATCAAGATGCTAGAGTATGCGCTG
AAGCAGGAAAGGGCCAAATATCATAAACTGAAGTTTGGGACAGACCTGAACCAGGGGGAGAAAGAAAGCAGATGTG
TCAGAACAAAGTCTCCAATGGCCCCGTGGAATCGGTACCCCTGGAGAACAGCCCGTTGGTGTGGAAGGAGGGGCGG
CAGCTTCTCCGACAGTACCTGGAAGAGGTGGGCTACACAGACACCATCCTCGACATGCGGTCCAAGCGCGTCCGT
TCCCTGCTGGGCGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGGCCCCAGGGCTCCACCAGGC
CCTGCAGGGCTCAGTGGTGGGGAGTGCCTGCTGGTGAACAGATCGAGGAGCAGATAAAGAGGAACGCGGCAGGC
AAAGATGGCAAAGAGCGCTTGGGCGGCTCAGTGTGGGGCAGATCCCTTCTCGCAGAACTGCGAGGACGAAGAC
AGCGACGAGGACGATGAGCTGGACAGCGTGCAGCACAAGAAGCAGCGTGTGAAGCTCCCATCCAAGGCTCTGGTG
CCCGAAATGGAAGACGAGGATGAGGAAGACGACTCTGAGGATGCTATCAATGAGTTTGATTTCCTGGGCTCAGGA
GAGGATGGGGAAGGGGCTCCAGACCCTCGGCGGTGCACTGTGGATGGGAGCCCCATGAGCTGGAAAGCCGTGCG
GTCAAACTCCAAGGCGTTCTGGCTGACCTGCGGGATGTGGATGGGCTGCCCCAAAAGTGACTGGCCCGCTCCT
GGCACACCCAGCCCCGGCCACATGAAGACGTCTTCATCATGGACACTATCGGGGGCGGGAGGTGAGCCTGGGG
GACTTGGCAGATCTCACCGTCACCAACGACAACGACCTCAGCTGCGATCTGTCTGACAGCAAAGATGCTTTTAAAG
AAGACGTGGAACCCCAAGTTCACCCTGCGCTCGCACTACGACGGCATTGTTCCCTGGCCTTCCACCACAGCCAG
TCGGCTCTGCTCACCGCTCCGAGGACGGCAGCTCAAGCTCTGGAACCTGCAGAAGGCGGTACGGCCAAAGAAG
AATGCGGCGCTAGATGTGGAACCTATACATGCTTTCCGGGCTCACAGGGGGCCAGTGTGGCTGTGGCTATGGGC
AGCAACAGTGAATACTGCTACAGTGGCGGGCAGATGCCTGCATCCATAGTTGGAAGATTCCAGACCTCAGCATG
GATCCCTATGATGGCTACGACCCAAGCGTGTGAGCCACGTCTGGAGGGCCACGGGGACGCCGTGTGGGGCCTG
GCCTTCAGTCCCACTCCAGCGCCTGGCCTCCTGTTCTGCTGATGGCACCGTCCGCATCTGGGACCCACGAGC
AGCAGCCCCGGCCTGCCTCTGCACCTTCCCCACAGCCAGCGAGCACGGGGTCCCCACCTCAGTGGCCTTACCAGC
ACCGAGCCTGCCACATCGTGGCCTCCTTCCGCTCTGGCGACACCGTCTTGTATGACATGGAGGTTGGCAGTGCC
CTCCTCACGCTGGAGTCCCGGGCAGCAGCGGTCCAACCCAGATCAACCAAGTGGTGAGTCATCCAAACCAGCCT
CTCACCATCACCGCCACGACAGAGGGGATCCGCTTCTGGACAATCGGACAGGTAAGCCGGTGCACTCCATG
GTTGCACACCTGGACGCAGTCACCTGCCTAGCCGTGGACCCCAACGGCGCATTCTGATGTGAGGAAGCCATGAC
TGCTCCCTGCGTCTCTGGAGCCTGGACAACAAAACGTGCGTGCAGGAGATCACGGCCCCACCGCAAGAAGCACGAG
GAGGCCATCCACGCTGTTGCCTGCCACCCACGCAAGGCCCTCATTGCCAGTGCTGGCGCTGATGCCCTGGCCAAG
GTCTTCGTAT**ATGAT**GCCCACCTGGCCCTGCCCTGGCCGCCACGCTGGCTGGGGTGTAAGGGCCGGGCAGGTGGGGCT
GAGGGGACTCCAGCCTCGCTGGAGGTGCAGAGGCCTGGCCTCTGTCTGTTTGCCATGGAGCCTGGTGGTGCTAA
CGGCCCTTTCCCCAGGAATCCCTCCCCAACGGCTGCCTTCCCCAAGCATCCAGCCTGGGGATGGGCCCTTTTCAG
GAATCACCCCCGAGGATGGCCTCGGGGTTTCCCCCTGTGCCCTGACAGCCGCTCCTGGTATCAGAGCTGCTTTCC
AGAGGGCAGCACAGCCAGGGCCGGGTGTCTTTAGGGATCAGTTTTTCCAAGACTCCAGAAGGTGCCAGGTTCTCC
CCTTGAGCTCCTGCTCCCCCATCCCCATCCTCCAGACCTGGGCAGGAGCTGTGCTGGGAGAAAGGTGGCAGC
CGGGAGCCTCAGAGCTGAGCCCCGGCCTGGCTGCCCCCTCCCTCCGGCCCTCTCCACTGCTTTCCAGACACTAAC
CAAGGCTTCCAGGCCAGGGATTGCCCAACACTCCTAGGGCAGCCCTCCAGCGCCCCATGGGGTCGCCCATGGGT
AGAGACGGCTTTCTTGTGCCCTCCCTGGGGCATGGAGGTTGGAGTGGGCCTCGGGTCCCCCTGAACTCCCTGTA
TATCTGTATAAATAACGGGATTTTCATGGCGCCGCCACCCGCATTATCACTGTGTGATGGTCTCAGTCAGTCT
CCTCCCTGTCTCCACTCTTTCCCTCTATTTATTTCACTCTCTTGGTTTCTACCCTGCACCCTCGGTCCCCTT
CCAGGTTCTGTTTATAAGCCCCAACCCCTCTGTCCCCTCTTGTATGTGAAAACCTGTCTCAATAAACCCCTTG
GAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5957/6881
FIGURE 5493

MMEERAAAAVAAAASSCRPLGSGAGPGPTGAAPVSAPAPGPGPAGKGGGGGSGPGPTAGPEPLSLPGILHFIQHE
WARFEAEKARWEAERAELQAQVAFLOGERKGQENLKTDLVRRIKMLEYALKQERAKYHKLKFGTDLNQGEKKADV
SEQVSNPVPESVTLENSPLVWKEGRQLLRQYLEEVGYTDTILDMRSKRVRSLGRSLELNGAVEPSEGAPRAPPG
PAGLSGGESLLVKQIEEQIKRNAAGKDGERLGGSVLGQIPFLQNCEDSDSDDELDVQHKKQRVKLP SKALV
PEMEDEDEEDDSEDAINEFDLFGSGEDGEGAPDPRRCTVDGSPHELESRRVKLQGV LADLRDVG LPPKVTGPPP
GTPQPRPHEDVFIIMDTIGGGEVSLGDLADLTVTNDNDLSCDLSDSKDAFKKTWNPKFTLRSHYDGIRSLAFHHSQ
SALLTASEDGTCLKLWNLQKAVTAKKNAALDVEPIHAFRAHRGPVLAVAMGSNSEYCYSGGADACIHSWKIPDLMS
DPYDGYDPSVL SHVLEGHGDAVWGLAFSPTSQRLASCSADGTVRIWDPSSSSPACLTFTPTASEHGVPTSVAFTS
TEPAHIVASFRSGDTVLYDMEVGSALLTTLESRGSSGPTQINQVVSHPNQPLTITAHDDRGIRFLDNRTGKPVHSM
VAHLDAVTCLAVDPNGAFLMSGSHDCSLRLWSLDNKTCVQEI TAHRKKHEEAIHAVACHPSKALIASAGADALAK
VFV

5958/6881
FIGURE 5494

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGC**ATGG**CTG
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTCACTATTTGACAAAGATGGTGATGGAACTA
TAACAACAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGT**GA**AGACCTT
GTACAGAATGTGTTAAATTTCTTGTACAAAATTGTTTATTTGCCTTTTCTTTGTTTGTAACCTTATCTGTAAAGG
TTTCTCCCTACTGTCAAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCCTCCATGTTTTCTTCCCTTATCT
TACTGTCATTGTCCTAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA
TCTAAGCCCTTCTGCACATCTAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA
AGTAGTTTTCTTTAGGAACTGTCAGCATGTTGTTGTTGAAGTGTTGAGTTGTAACCTCTGCGTGGACTATGGACAG
TCAACAATATGTACTTAAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG
TACTGCTGGTCCTGTACCAGAAACATTTTCTTTTATTGTTACTTGCTTTTTAACTTTGTTTAGCCACTTAAAAT
CTGCTTATGGCACAATTTGCCTCAAAATCCATTCCAAGTTGTATATTTGTTTTCCAATAAAAAAATTACAATTTA
CCC

5959/6881
FIGURE 5495

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMAR
KMKDTSDEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGGQVNYEEFVQMMTAK

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FIGURE 5496

GAGCCTACCAAACCTTTGGTTTCGCAGGGCTGGAGCTAAGTCTCGCTCCAGGAGAAAGAAGCAGAAGAAGAACTCC
AGGCAGGAAGCAGTGCCCTGGAAAAACCCAAAGGCATCAATTCCAACAGCACAGCTAACTTGGAGGATCCTGAG
GTGGGTGATGCTGAAAGCATGGCGATCTCAGAGCCGATCAAGGGCAGCAGAAAGCCCTGTGTGAATAAGGAGGAG
TTGGCTTTGAAGAAGCCCATGGCGAAATGTGCCTGGAAGGGTCCAGAGAGCCACCTCAGGATGCCCCGGGCAGAA
GCCGAGAGCCCAGGAGGCGCCTCTGAGTCAGACCAAGATGGTGGCCATGAAAGCCCACCAAAGAAGAAGGCCGTG
GCCTGGGTGTCTGCCAAGAACCCCGCTCCCATGAGGAAGAAGAAGAAGGTGAGCTTGGGCCCTGTCTCCTACGTC
TTGGTTGACTCAGAAGATGGCAGGAAGAAGCCGGTGATGCCAAAGAAAGGGCCAGGCTCAAGAAGGGAGGCATCA
GATCAGAAGGCCCTCGGGGCCAGCAGCCTGCCGAGGCAACAGCCTCAACCTCTAGGGGTCCGAAGGCCAAGCCA
GAAGGCTCTCCTCGGCGTGCCACCAATGAATCCAGAAAGGTTTGATCTGGGGGACCACCCATACTGAGGAGTTGA
AAGAACAAGGAAGAAGTACCAAGTCAACCAAGTTCTCTCTTGTCACTGAATAAGACTTTGGACTCTCTTAGGGCC
CCTGTTGATAGAGATCTGGCCCTGAGGTAAACGATAGGTGAGGTCTTGGGTGGGAGGGAGTTGGGGAAGGGAGGT
GGATCTCTATGCCCTTTTCTCTACCAGGCCTGCCGTTTACCAGCCTTCTCTACTCACCTTCTCTTCGGAGGCAGG
AGAGTTGGTAAGAGGATTGGGAAAATTCTAGAACATTCAATCCCTTTATGCATGAGCAGGGTCACTGTTACACT
CATCCATGTTTCAGCTTTTCTCCCCACGCCTTGCTCCCTCCTCGGAATGGTCAGCGACCTCTGCAGGCCCTGGCA
TTTGGAAGAGCTGGGTGGCCCTGCCATATTCTTCTCCGCTTCTCTCGTGTAACCAGCGGGGTAAAGTTAAGC
CAGGACCTTCGCTGCAAACCTGGTTTTATTGCTCCTTCAGTCTCCAGCTTCCATCCTCCAGTTATCTAGCCAGGA
GGTCCCAAGAGTTAGTTTTAGGGAAAAAGAATGTCTGCCTAGACCTCAAAGTCTTTGAGTTTTAGAGTCTGTTAG
TAAAAATGGCACTTTGATTCCCATTTGGGATGAGCCCTCTCAGGAATCCTGTGGGGAAGGGGGTGATTATAGGG
AAGGACGCAGGCATTCTAGGTCCCCAGCTCTAATTCCATCCATCTACCCAACTGTCACCATCTTGCACCAAAC
TGTCACCATCTTTGCAGCAGAAGGTCACTACTCACATTATAGTAAGAGGGGAAAAAAATCTTTTAAACTTGGCT
GTTGGCCGGGCACGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCAGGTCGATCACGAGGTCAG
GCGTTTAAAGACCAGCTTGACCAACATGGTGAAACCCATCTCTACAAAAATTAGCTGGGCGTGGTGGCGCGCGCC
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGATGAATTGCTTGAATCCAGGAGGCAGAGGTTGCAATGAGCCGA
GATTGTGCCACGGCACTCCAGCCTGGGCAGCAGAGTGAGACTCTCTCTCAAAAAACAAACTTGGCTGTTAATG
TCTGCCCTCTGAATTCAGACACACTATATTAGACCAGACCACCATGTGTCATTGTGTGTGTGTGTGTGTGTTT
GCGTGCGCATGTGTAGAGGAGAGAGCAGGGTCCCTGAGATAATGGTTTCCAACTGTATCGTAGCCGTCCACAAA
GATGTAATCCAAATCTATTTTTCTCACGTGTTTAAAAAACTGAAAAGTGACTACTCAGATATGTTGGAAGTCACA
TCGAAGACTATCAGAATATTACCTTGTGTTTCATAGGTTAACTTGTTTTGTACACGTCTTAGTTATTTAGGCAT
CTCTTTGCTTAAATTTAGTTTTCTTGTAATGTGACTGATGAGCGAGGTTAGAAGTGGAAGAAATTCCTGTGCAT
GTTCTATAATCTGACACCCTGAAAGCAAGTTTCCTTTTCGTCATTACATGCTCTTGTCTGCCGTGACTGTTTCAG
GTGTATGGTAGTAAGTAAATGTATTAACATGGTGAACAGTAGTAATATTCTATCATAGAGTATTAGCCCTTGCAA
GTTTTCAGGGCGTCTTTTCCGACTTCAGTTTTTGTGATAAAGAATGTGAACAGTTGTTAGATGTTCTCAGTGATT
CAACTTTAAACAAATTTCTCGTGATGATTCAATTTCAAATCCTGAGTGAGTCTGACTGAAAAATACGAGAGAAA
AGAGAGTGGTTTTCCGTTTGCAGCTACACAGCTGTGTGCATCGACGTTCTCCTGGGGTGTGTGCCAAGCGAAACCC
AGGGGTGAATTGGATTCTTGAAGAGACCAAAGCCTGTAAGTGTCCAGCTTCTAATTTCAAACGGGTCCATTAGG
GCTTCGTTGTGTTAACAAGTTGACACCATGACTAGTAAATGTAAACGTGTATGTATAAAATAAAGTTTAGCAAA
TAAGTGTCCTGTT

5961/6881
FIGURE 5497

CGCGACGGTTCGGCCGGGTGCCGCTGGCGGCCGTTGCCAGGGTAGGGGTCGCTTTGCGGCATGGCGGAG
GGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAGCTCTGAAGCGGGCAGAGGAG
CTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGCCATCAAGTCTACAGCCAGGCCATC
GAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTGGCCTACCTGCGCACTGAGTGTATGGCTAC
GCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGAAGTACATCAAGGGTTATTACCGCCGGGCTGCCAGC
AACATGGCACTGGGCAAGTTCGCGGCCGCGCTGCGAGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAG
GATGCCAAAATGAAATACCAGGAGTGCAACAAGATCGTGAAGCAGAAGGCCTTTGAGCGGGCCATCGCGGGCGAC
GAGCACAAGCGCTCCGTGGTGGACTCGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCCAAG
CTTGAAGACGGCAAAAGTGACAATCAGTTTCATGAAGGAGCTCATGCAGTGGTACAAGGACCAGAAGAACTGCAC
CGGAAATGTGCCTACCAGATTCTGGTACAGGTCAAAGAGGTCTCTCCAAGCTGAGCACGCTCGTGGAAACCACA
CTCAAAGAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCCTCAACATATTCGAG
CTCAACGGTTTACCCCTCGGAGACCAACCCCTATATATTTAATGGTGACTTTGTGGACCGAGGCTCCTTCTCTGTA
GAAGTGATCCTCACCCCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTCACCTCCTTCGAGGCAACCACGAG
ACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGGCCAAGTACACAGCCCAGATGTACGAGCTC
TTTAGCGAGGTGTTTCGAGTGGCTCCCGTTGGCCAGTGCAACGGCAAAGTGCTGATCATGCACGGAGGCCTG
TTCAGTGAAGACGGTGTACCCCTGGATGACATCCGGAATTTAGCGGAATCGACAACCCCCAGATTCAGGGCCC
ATGTGTGACCTGCTCTGGTCAGATCCACAGCCACAGAACGGGCGCTCGATCAGCAAGCGGGGCGTGAGCTGTCAG
TTTGGGCCTGACGTACCAAGGCCTTCTTGGAAGAGAACAACCTGGACTATATCATCCGCAGCCACGAAGTCAAG
GCCGAGGGCTACGAGGTGGCTCACGGAGGCGCTGTGTACCGTCTTCTCTGCCCCCACTACTGCGACCAGATG
GGGAACAAAGCCTCCTACATCCACCTCCAGGGCTCTGACCTACGGCCTCAGTTCACCAGTTCACAGCAGTGCCT
CATCCCAACGTCAAGCCCATGGCCTATGCCAACACGCTGCTGCAGCTAGGAATGATGTAGAGGTGACGGGCGGGC
GGCCTGCATCCCAGGGCCCCCTCCAATCCACCGGACCCAGGCCCTGGGCTAGGGGCAGAGCAGGCCCCGCCCCAG
GGCAATGTTGGACCCCTTTTACTTTGTAAAGTTTGATTTATTCCCTTTAGGTTTGCAGAGGGGGTAGGGGCA
GAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACA
GCCTGGGCATTCTGTGGGGAGGCCGTCCTCGGGGTGGGGTGGGGCCGAGTGGCTGCCCTGCCCCCTCATTGCA
TGGCTCCTCCCCACTCAAGCAATAGGGCCCCGCCATAGGAAGACCCCCAGAGAGAGGGTTCAGCAGGGGGGCCCC
GCCTGCGCCTCCCTCCTATAGCCCCATGGTGGGGCTAGGCTGGGGCTCACCCCCCTCCCAGCTATTTTATGTC
TGTAATTAAATATGTTAAATAAAGTCATTATCGGAAAAAAAAAAAAAA

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FIGURE 5498

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSLAYLRT
ECYGYALGDATRAIELDKKYIKGYRRRAASNALGKFRAALRDYETVVKVKPHDKDAKMKYQECNKIVKQKA
AIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKLHRKCAYQILVQVKEVLSKLST
LVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFSVEVILTTLFGFKLLYPDHFHLL
RGNHETDNMNQIYGFEDEVKAKYTAQMYELFSEVFEWLPLAQCIINGKVLIMHGGLFSEDGVTLDDIRKIERNRQP
PDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDVTKAFLEENNLDYIIRSHEVKAEGYEVAHGGRCVTVFSAPN
YCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYANTLLQLGMM

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FIGURE 5499

CCCCTTCCTGTGGGGTTCATTGGGGCATCCCTTTCTGCTGCAGGAACCTCTCATCAGACCGCCTGAGGGAAGCG
GCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCTCCCAGGAAGCCGGACTCTATGGGGCGGGACCCTGGGGG
AGCCTGAGCCGAGCCCGGAGCCAGCCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCG
TGGGCGAGCCGCCCCGCCGCGAGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTT
ATGATGATGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCTTCAGCCGCTCCAGATCTACCACA
ACCCACGGCCAATTCCCTTTCGCGTCGTGGGCCGGAAGATGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCA
TCGTCCGGGGTGTCAAGTATAACCAGGCCACCCCAACTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCC
TCAACTTCGGCAGCAAGGAGGATGCGGCCAGTTTGCGCCGGCATGGCCAGTGCCCTAGAGGCGTTGGAAGGAG
GTGGGCCCCCTCCACCCCCAGCACTTCCACCTGGTCGGTCCCGAACGGCCCCCTCCCCGGAGGAGGTGGAGCAGC
AGAAAAGGCAGCAGCCCGGCCCGTCGGAGCACATAGAGCGCCGGGTCTCCAATGCAGGAGGCCCCACCTGCTCCCC
CCGCTGGGGGTCCACCCCCACCACCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCCAGGTTTGCCCCCTT
CGGGGGTCCAGCTGCAGCGCACGGAGCAGGGGAGGACCACCCCTGCACCCCTCTCCCGGCAGCACAGGGCC
CTGGTGGTGGGGAGCTGGGGCCCCAGGCCTGGCCGCAGCTATTGCTGGAGCCAAACTCAGGAAAGTCAGCAAGC
AGGAGGAGGCCTCAGGGGGGCCACAGCCCCAAAGCTGAGAGTGGTGAAGCGGAGGTGGGGGACTCATGGAAG
AGATGAACGCCATGCTGGCCCCGAGAAGGAAAGCCACGCAAGTTGGGGAGAAAACCCCAAGGATGAATCTGCCA
ATCAGGAGGAGCCAGAGGCCAGAGTCCCGGCCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACAGCACAA
CCTTGCCAAGGATGAAGTCGTCTTCTCGGTGACCATTCCGAGACCCAACCCTGCACGCCCAGCTCCAGTGATT
ACTCGGACCTACAGAGGGTGAAACAGGAGCTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAAGAGGAAA
TCATTGAAGCCTTCGTCCAGGAGCTGAGGAAGCGGGTTCTCCCTTGACCCACAGGGACCCAGAAGACCCGCTTCTC
CTTTCCGCACACCCGGCCTGTCACCCCTGCTTTCCCTGCCTCTACTTGACTTGGAATTGGCTGAAGACACAGGAAT
GCATCGTTCCCACTCCCCATCCCACCTTGAAAACCTCCAAGGGGTGTGGCTTCCCTGCTCACACCCCACTGGCT
GCTGATTGGCTGGGGAGGCCCCCGCCCTTTTCTCCCTTTGGTCCTTCCCTCTGCCATCCCTTGGGGCCGGTCC
CTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGGGAAGGAAGGAGGGAATTCACATTCCCTTGTTCTAG
ATTCACTTTAACGCTTAATGCCCTTCAAAGTTTTGGTTTTTTTAAAGAAAAAATATATATATATTGGGTTTTG
GGGAAAAGGGAATTTTTTTTCTTTTGGTTTTTGATAAAATGGGATGTGGGAGTTTTTAAATGCTATAGCCCT
GGGCTTGCCCCATTTGGGGCAGCTATTTAAGGGGAGGGGATGTCTCACCGGGCTGGGGGTGAGATATCCCCCAC
CCCAGGGACTCCCCCTCCCTCTGGCTCCTTCCCCTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACCT
CAGTTTTTTGATTTTTTATTGGGTAGTTTTTGGGTCCAGGCCATTTTTTTTACCCCTTGAGGAAATAAGATG
AGGGAGAAAGGAGAAGGGGAGGAACTTCTCCCTCCCACCTTACCTTTAGCTTCTTGAAAATGGGCCCCCTGCA
GAATAAATCTGCCAGTTTTTATAAAAAAAAAA

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FIGURE 5500

MSETVICSSRATVMLYDDGNKRWLPAGTGPOAFSRVQIYHNPTANSFRVVGRKMOPDQQVVINCAIVRGVKYNQA
TPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGGPPPPPALPTWSVPNGPSPEEVEQQKRQQPGPSE
HIERRVSNAGGPPAPPAGGPPPPPGPPPPPGPPPPGLPPSGVPAAAHGAGGGPPFAPPLPAAQGPGGGGAGAPG
LAAAIAGAKLRKVSKQEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVP
AQSESVRRPWKKNSTTLPRMKSSSSVTTSETQPCTPSSSDYSDLQRVKQELLEEVKKELQKVKEEIEAFVQELR
KRGSP

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FIGURE 5501

ACAGTAGTAAGAGTAACACTGTAGCCGCCACCGGCAAGGGGTGCGCGCTGGGGAGCGGACGCTGCATCCCCTTTC
TGCTGCAGGAACCTCTCATCAGACCGCCTGAGGGAAGCGGCGCCCGGAGACCGCCCCGGCCCGGTCCACATTCT
CCCTGACCACAGGGACCCAGAAGACCCGCTTCTCCTTTCCGCACACCCGGCCTGTCACCCTGCTTTCCTGCCTC
TACTTGACTTGGAATTGGCTGAAGACTACACAGGAATGCATCGTTCCCACTCCCCATCCCCTTGGAATACTCCA
AGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCTGCTGATTGGCTGGGGAGGCCCCCGCCCTTTTCTCCCTT
TGGTCCTTCCCCTCTGCCATCCCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGG
GGAAGGAAGGAGGGAATTTACATTCCCTTGTCTAGATTCACTTTAACGCTTAATGCCTTCAAAGTTTGGTTT
TTTTAAGAAAAAAAATATATATATATTTGGGTTTGGGGGAAAAGGAAATTTTTTTTCTCTTGGTTTTGAT
AAAATGGGATGTGGGAGTTT

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FIGURE 5502

AAGTGCTGCGAGCCCTGGGCCACGCTGGCCGTGCTGGCAGTGGGCCCGCCTCGATCCCTCTGCAGTCTTTCCCTTG
AGGCTCCAAGACCAGCAGGTGAGGCCTCGCGGCGCTGAAACCGTGAGGCCCGGACCACAGGCTCCAGATGGACCC
TGGGAAGGACAAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGA
GGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCCCACTGTGGACACCTCGGC
CCAGGCGGCCCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCCCAC
AGGGTCAGAGCCCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGT
GAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCGCAACGTGCCCTGGGAATTTGGCGACGTAATTCC
CGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACAT
CCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCTTGCGGGTCCTGCTTGTCAGGTGGATGTGAAAGATCC
CCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGA
GGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCTATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGA
GCAGGACTTCGTCTCCCGGGTGACTGAATGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCT
CCTGACCACATTTGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCTGGG
CCCTCAGAAAGCCCGGAGGCTGTTTGATGTCCTGCACGAGCCCTTCTTGAAAGTACCCTTGATGACCCCAGCTGCC
AAGGAAACCCCCAGTGTAATAATAAATCGTCCTCCAGGCCAGGCTC

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FIGURE 5503

MDPGKDKEGVPQPSGPPARKKFVIPLDEDEVPPGVAKPLFRSTQSLPTVDTSAQAAPQTYAEYAISQPLEGAGAT
CPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNPVLKFVRNVPWEFGDVIPDYVLGQSTCALFLSLRYHNLHP
DYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEEAGRYLETYKAYEQKPADLLME
KLEQDFVSRVTECLTTVKS VNKTDSQTLLTTFGSLEQLIAASREDLALCPGLGPQKARRLFDVLHEPFLKVP

[illegible]

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FIGURE 5505

MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTELWLIQAPADFAPECFNGRHVPLSGSQIVKGKLAG
KRHRVRLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLQPIPASPPPQIPPGLRPRFC
AFGGNPPVTGPRSALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPEMDVRKKKKKKKNQQLKEPE
AAGPVGTEPTVETLEPLGVLPSTTKKRKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTEGME
PEEGVTVESQPQVKVEPLEEAIPLPPTKKRKKEKGQMAMMEPGTEAMEPVEPEMKPLESPGGTMAPQQPEGAKPQ
AQAALAAPKKKTKKEKQQDATVEPETEVVGPELPDDLEPQAAPTSTKKKKKKKERGHTVTEPIQPLEPELPGEGQ
PEARATPGSTKKRKKQSQESRMPETVPQEEMPGPPLNSESCEEAPTGRDKKRKQQQQQPV

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FIGURE 5506A

CGCCTCCCTCCGCCGCCGCTTGGGCGGGCTCCGCGCCCCCTCCGCGGCCCCCGCCCGCCGCTGCCCGCCGCC
CCATGGCGCCCCGGGTCCCCGCTGCACGGGGCCACTAGGACCCCTCGGCGTCCCTTCCCCTCCCCCGCCCTGCCCC
CTCTCCCGCCGCGCGGACCCGGGCGTTCTCGGCGCCAGCTTTTGTAGCTCGCGTCCCCAGGCCGGCGGGGGGGA
GGGGAAGAGAGGGGACCCTGGGACCCCCGCCCCCCCCACCCGGCCGCCCTGCCCCCCGGGACCCGGAGAAG**ATG**

TCTTCGCGGACGGTGCTGGCCCCGGGCAACGATCGGAACTCGGACACGCAATGGCACCTTGGGCAGTGGCCGCTCC
TCGGACAAAGGCCCGTCCCTGGTCCAGCCGCTCACTGGGTGCCCGTTGCCGGAATCCATCGCTCCTGTCCCGAG
GAGCAGCCCCACGTGGGCAACTACCGCTGCTGAGGACCATTGGGAAGGGCAACTCTGCCAAAGTCAAGCTGGCT
CGGCACATCCTCACTGGTCGGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCTGCAG
AAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCTAAACCACCCCAACATCGTGAAGCTCTTTGAGGTGATTGAG
ACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGTGGAGAAGTGTGTGACTACCTCGTGTGCGATGGC
CGCATGAAGGAGAAGGAAGCTCGAGCCAAGTTCGACAGATTGTTTCGGCTGTGCACTATTGTACCAGAAAAAT
ATTGTACACAGGGACCTGAAGGCTGAGAACCTCTTGCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGC
TTCAGCAACGAGTTACGCTGGGATCGAAGCTGGACACGTTCTGCGGGAGCCCCCATATGCCGCCCGGAGCTG
TTTCAGGGCAAGAAGTACGACGGGCGGAGGTGGACATCTGGAGCCTGGGAGTCATCCTGTACACCCTCGTCAGC
GGCTCCCTGCCCTTCGACGGGCACAACCTCAAGGAGCTGCGGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCT
TTCTACATGTCAACAGACTGTGAGAGCATCCTGCGGAGATTTTTGGTGCTGAACCCAGCTAAACGCTGTACTCTC
GAGCAAATCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCCGAG
GAGGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAGTCC
TTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGGGTGGGGAC
CGGGGCGCCCCAGGGCTGGCCTGGCACGGGTGCGGGCGCCAGCGACACCACCAACGGAACAAGTTCAGCAAA
GGCACCAGCCACAGCAAAAGGGCAGCGGAGTTCTCTTCCACCTACCACCGCCAGCGCAGGCATAGCGATTTCTGT
GGCCCATCCCTGCACCCCTGCACCCCAACCGCAGCCCGACGAGCACGGGGGAGGCGGAGCTGAAGGAGGAGCGG
CTGCCAGGCCGGAAGGCGAGCTGCAGCACCGCGGGGAGTGGGAGTGCAGGGCTGCCCCCTCCAGCCCATGGTC
AGCAGCGCCCAACCCCAACAAGGCAGAGATCCAGAGCGGCGGAAGGACAGCACGAGCACCCCAACAACCTC
CCTCTAGCATGATGACCCGAGAAACACCTACGTTTGACAGAACGCCCGGGGGCTGAGCGCCCGTCACTGTTG
CCAAATGGGAAAAGAAAACAGCTCAGGCACCCACGGGTGCCCTGCCCTCCCTCCAGTCACAGCCTGGCACCC
CCATCAGGGGAGCGGAGCCGCTGGCACGCGGTTCCACCATCCGACACCTTCCATGGTGGCCAGGTCCGGGAC
CGGCGGGCAGGGGGTGGGGGTGGTGGGGGTGTGAGAATGGGCCCCCTGCCTCTCCACACTGGCCCATGAGGCT
GCACCCCTGCCCGCCGGGCGCCCGCCACCACCAACCTCTTACCAAGCTGACCTCCAACTGACCCGAAGG
GTTACCCCTCGATCCCTCTAAACGGCAGAACTCTAACCCTGTGTTTCGGGCGCCTCTCTGCCCCAGGGATCCAAG
ATCAGGTGCGAGACGAACCTGAGAGAATCGGGGACCTGAGGTACAAAGTTGCCATCTACCTTGGGATCAAACGG
AAACCGCCCCCGGCTGCTCCGATTCCCTTGGAGTGT**TGA**AGCTGACCAGCTCGCGCCCTCCTGAGGCCCTGATGG
CAGCTCTGCGCCAGGCCACAGCAGCCGCCGCTGCCGCTGCCGCCAGCCACAGCCGTTCTGCTGGCCTGCCTGC
ACGGGGGTGCGGGCGGGCCCGAGCCCTGTCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCGGCCAGGCTTGC
GGGAGTTCTCTTCCGCCGTGTGGCGGGCACCGCCCTGGCCTTCCGCACCCCTCGTCACCCGCATCTCCAACGACC
TCGAGCTCTGAGCCACCAGGTCCCAGGGCCCTTACTCTTCTCTCCCTTGTCGCCCTTCACTTCTACAGGAGGGG
AAGGGGCCAGGGAGGGGATTCTCCCTTTATCATCACCTCAGTTTCCCTGAATTATATTGGGGGCAAAGATTGTC
CCCTCTGCTGTTCTCTGGGGCCGCTCAGCACAGAAGAAGGATGAGGGGGCTCAGCGGGGGGAGCTGGCACCTTCC
TGGAGCCTCCAGCCAGTCTGTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGAGACTTTGGGGACAGGGCAGG
GGCAGGGAGGGAACTGAGGAAATCTTCCATTCTCCCAACAGCTCAAAATTAGGCCTTGGGCAGGGGCAGGGAG
AGCTGCTGAGCCTAAAGACTGGAGAATCTGGGGGACTGGGAGTGGGGGTGAGAGAGGCAGATTCTTCCCTCCC
GTCCCTCACGCTCAAACCCCCACTTCTGCCCCAGGCTGGCGCGGGGCACCTTGTACAAATCCTTGTAATAACC
CCACACCCTCCCTCTGCAAAGGTCTCTTGAGGAGCTGCCGCTGTACCTACGGTTTTTAAGTTATTACACCCCG
ACCCTCTCTGTGACCCCCCTCACCTGCAGCCTGTTGCCCAATAAATTTAAGAGAGTCCCCCCTCCCCAATGC
TGACCCTAGGATTTTCTTCCCTGCCCTCACCTGCAAATGAGTTAAAGAAGAGGCGTGGGAATCCAGGCAGTGGT
TTTTCTTTTCGGAGCCTCGGTTTTCTCATCTGCAGAATGGGAGCGGTGGGGGTGGGAAGGTAAGGATGGTCTGG
AAGAAGGCAGGATGGAACCTCGGCCTCATCCCCAGGCCCCAGTTCTATATCGGGCCCCCATTCATCCACTCAC
ACTCCAGCCACCATGTTACACTGGACTCTAAGCCACTTCTTACTCCAGTAGTAAATTTATTGCAATAACAATC

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FIGURE 5506B

ATTGAXCCC

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FIGURE 5507

MSSRTVLAPGNDRNSDTHGTLGSGRSSDKGPSWSSRSLGARCNSIASCPPEQPHVGNRYRLLRITIGKNSAKVKL
ARHILTGREVAIKIIDKTQLNPSSLQKLFREVRIMKGLNHPNIVKLFVETETKTLVMEYASAGEVFDYLVSH
GRMKEKEARAKFRQIVSAVHYCHQKNIVHRDLKAENLLDAAENIKIADFGFSNEFTLGSKLDTFCGSPPYAAPE
LFQGGKYDGPVWDIWSLGVILYTLVSGSLPFDGHNKELRERVLRGKYRVPFYMSDCEILRRFLVLNPAKRCT
LEQIMKDKWINIGYEGEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKESLTSQKYNEVTATYLLLGRKTEEGG
DRGAPGLALARVRAPSDTTNGTSSSKGTSHSKGQRSSSSTYHRQRRHSDFCGPSPAPLHPKRSPTSTGEAELKEE
RLPGRKASCSTAGSGSRGLPPSSPMVSSAHNPNAEIPERRKDSTSTPNNLPPSMMTRNTYVCTERPGAERP
SLPNGKENSSTGTPRVPPASPSSSLAPPSGERSRLARGSTIRSTFHGGQVRDRRAGGGGGGGVQNGPPASPTLAHE
AAPLPAGRPRPTTNLFTKLTSKLTRRVTLDPKQNSNRCVSGASLPQGSKIRSQTNLRESGDLRSQVAIYLG
IKRKPPPGCSDSPGV

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FIGURE 5508

ACCCGGAGCGGGAAGATGGCGGCGGCGCAGGAGGCGGACGGGGCCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCCACCG
GCCAGCCGGCACCCAATGCCTGGCAGGTTCATCAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCGCGCGAGGGCCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTCGGCACTCTTCTGGGAACAGCACGATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC
TACGAGCACTTTGCTGAGCTCGATATCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCCGGCAGAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTTCAGAAAACCAAGAACCTGCTGACAGGAGAGACAGAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCCATTTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACACGCCGTGGGTGAAGGGCAGTGTGCCCCCTCCCCCTGGATCAATATGTGAAGTTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCACTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAGTGCCTTGGAACCTTCTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTACAGTGTCTTC
GAGTTCCTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTTCAGTCATTTCGTGGTCTCCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCATTGGGGTCTCATCGACCTCTGGAAGATCACCAAGGTTCATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCGCCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGACAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCCTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTTCATCGACGACCTGTTGCGCTTTGTTCATCAAGATGCCCGTTATGTACCGGATCGGC
TGCTTGCGGGACGATGTGGTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCACCCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCCCACAGCAGCAGGGGCC
CTCACGCCCACACCTGCACCCACCACGACCACCGCCACAGGGAGGAGGCCTCCACGTCCCTGCCCACCAAGCCC
ACCCAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCCTCCAAAGCCAGCAGAGGACAAGAAAAAGGATTAG

TCGAGACTGGTCTCACCCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCCTCCCCCTCCC
TGTCGCCCTTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCCTCAGGTCAGGGCCCAGCGTGTGACGT
AGGGGGCCGGGGCAGGCCAGGGTTTTGTTTGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCCAGCACCCTGGGAATCATGGTGAAGCTGATGCAGCGTTGCCGAGGGGGTGGGTTGGGCGGG
GGTGGGGCCGGGCCCCCTACGGGATGCCACGGCCGTTTCATCATCTTGTCCCTCGTCCCCCTACCACACTCCCC
CTCCTAGACCGCCGCCCTTTAACACAGTCTGGATTTAATAAATTCATATGGGTGTTTAACTTAACTCAAAAAA
AAAAAAAAAA

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FIGURE 5509

MAAAQEADGARS AVVAAGGGSSGQVTSNGS IGRDPPAETQPQNPPAQ PAPNAWQVIKGVLFRIFI IWAISSWFRR
GPAPQDQAGPGGAPRVASRNLF PKDTLMNLHVYI SEHEHFTDFNATSALFWEQHDLVYGDWTSGENSDGCYEHFA
ELDIPQSVQQNGSIYIHVYFTKSGFHPDPRQKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKR
AEDYGPVEVISHWHPNITINIVDDHTPWVKGSVPPPLDQYVKFDAVSGDYYP IYFNDYWNLQKDYY PINESLAS
LPLRVSF CPLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALTIIVSIVHSVFEFLAF
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQVSFVFIGVLIDLWKITKVM DVRLDREHRVAG
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFPLLG CYAVYSLLYLEHKGWYSWVLSMLYGFLLTFGFITMTP
QLFINYKLKSAHLFPWRMLTYKALNTFIDDLFAFVIKMPVMYRIGCLRDDVVFFIYLYQRWIYRVDPTRVNEFGM
SGEDPTAAAPVAEVP TAAGALTPTPAPT TTTTATREEASTSLPTKPTQGASSASEPQEAPPKPAEDKKKD

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FIGURE 5510

GATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCCGAGCTGCGCCAGCAGACCGAGTGGCAGA
GCGGCCAGCGCTGGGAACTGGCACTGGGTTCGCTTTTGGGATTACCTGCGCGCCAAGCTGGAGGAGCAGGCCCAGC
AGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAGAGCTGGTTCGAGCCCCTGGTGGGAAGACATGCAGC
GCCAGTGGGCCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGGCACCAGCGCCGCCCTGTGCCCAGCGACAATC
ACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACCCCGTGCTCCTGCCTCCGCGCAGCCTGCAGCGGG
AGACCCGTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCCTAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5511

CGCAGCGGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGG
GCTGCGTTGCTGGTCACATTCTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAACTGGCACTGGGTGCTTTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTCACCCAGGAAGTGAAGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAAGTGGAGGAACAAGTACCCCGGTGGCGGAG
GAGACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGC
GGCCGCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC
GCCTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC
CAGGCCGGGGCCCCGCGAGGGCGCCGAGCGCGGCTCAGCGCCATCCGCGAGCGCCTGGGGCCCCCTGGTGAACAG
GGCCGCGTGCGGGGCCGCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCCAGGCCTGGGGCGAG
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGACCCGCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGCG
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAG
AGCTGGTTTCGAGCCCCTGGTGAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTG
GGCACCAGCGCCGCCCTGTGCCAGCGACAATCACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCTCCTGGGGTGGACCC
TAGTTTAATAAAGATTCACCAAGTTTCACGC

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FIGURE 5512

MKVLWAALLVTFLAGCQAKVEQAVETEPEPELQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERA
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRKLEEQAQQIRLQAEAFQARLKSWFEPLVEDMQRQWAGLVEK
VQAAVGTSAAPVPSDNH

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FIGURE 5513

GGCGGCGGCAGCGGGTTTCGGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCAATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCACTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGCTGCCTGCCCAACCCGGGCACATTCGAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTACG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACCTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCAATCACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCCTGGGGAACCCAGACGTCTCTGTTGGGTTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGGCCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGGAGCCAGCACAAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCACCCCTGCCCTGACACTGGCCCTTGGGGCCTTCCCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTTGAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGGTCGGGGGGGGACATTGGAAGGAGGGACCCCGCCACCCACAGCAGCTGAGGAGGGGATTCTGGAAGTGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTTGGCGTCCCCA
TCTTCAAAGGGCCTGGGCCCCGCCCGAGGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACC GGACATTTTACAGAAAAA
AAACAAAAAACACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5514

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQLGPGRLRSKMAIQTQSKFVNWQVDGEYRGSDFTAATLGNPDVLVGSGILVAHYLQSI
TPCLALGGELVYHRRPGEEGTVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 5515

GAGCAGAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCCGAGCCGGAGCCGGAGCCCCACAGGCACCTACTAA
ACCGCCAGCCGATCGGCCCCACAGAGTGGCCCGCGGGCCTCCGGCCGGGCCCAGTCCCTCCCGGGCCCTCCA
TGGCCCCGGGCGCTGCCCTCCTGCCGTGAGATCGCCGCCGACGCCGCTGCTGTGGCCGCTGCTGCTGCTGCTGC
TCCTGGAAACCGGAGCCCAGGATGTGCGAGTTCAAGTGCTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCGTGG
AGCTGCCGTGCCACCTGCTGCCACCTGTTCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCCAGATGCAC
CTGCGAACCACCAGAATGTGGCCGCCCTTCCACCCTAAGATGGGTCCCAGCTTCCCCAGCCCCGAAGCCTGGCAGCG
AGCGGCTGTCTTTCGTCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGG
CCCTCCACGGGCTCACGGTGGAGGACGAGGGCAACTACACTTGCGAGTTTGCCACCTTCCCCAAGGGGTCCGTCC
GAGGGATGACCTGGCTCAGAGTCATAGCCAAGCCCAAGAACCAAGCTGAGGCCCAGAAGGTCACGTTACGCCAGG
ACCCTACGACAGTGGCCCTCTGCATCTCCAAAGAGGGCCGCCACCTGCCCGGATCTCCTGGCTCTCATCCCTGG
ACTGGGAAGCCAAAGAGACTCAGGTGTACGGGACCTGGCCGGAAGTGTCACTGTACCAGCCGCTTCACCTTGG
TGCCCTCGGGCCGAGCAGATGGTGTACGGTCACCTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCAGCCCTGA
TACCTGTGACCTCTCTGTACGCTACCCTCCTGAAGTGTCCATCTCCGGCTATGATGACAAGTGGTACCTCGGCC
GTACTGATGCCACCCTGAGCTGTGACGTCCGCAGCAACCCAGAGCCCACGGGCTATGACTGGAGCACGACCTCAG
GCACCTTCCCGACCTCCGCAGTGGCCAGGGCTCCCAGCTGGTTCATCCACGCAGTGGACAGTCTGTTCAATACCA
CCTTCGTCTGCACAGTACCAATGCCGTGGGCATGGGCCGCGCTGAGCAGGTCATCTTTGTCCGAGAAACCCCA
GGGCTCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGGACACTGCTGGTGTGCTGCTTCTGG
CTGGGGGGTTCCTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAGAGCCCTGGAGGAGCAGGAGGAGGAG
CCAGTGGCGACGGGGGATTCTACGATCCGAAAGCTCAGGTGTTGGGAAATGGGGACCCGCTTCTTGACACCAG
TAGTCCCTGGTCCCATGGAACCAGATGGCAAGGATGAGGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGGCC
TCATGTTGCCTCCACCCCCAGCACTCGAGGATGACATGGAGTCCCAGCTGGACGGCTCCCTCATCTCACGGCGGG
CAGTTTATGTGTACTGGACACAGACAGAGACAGAGCCAGGCCCCGGCCCTCCCGCCCCGACCTGACCACGCCG
GCCTAGGGTTCCAGACTGGTTGGACTTGTTTCGTCTGGACGACACTGGAGTGGAACACTGCCTCCCACCTTTCTTG
GACTTGAGGGAGGTGGAACAGCACACTGGACTTCTCCCGTCTCTAGGGCTGCATGGGGAGCCCGGGGAGCTGAG
TAGTGGGGATCCAGAGAGGACCCCCGCCCCAGAGACTTGGTTTTGGCTCCAGCCTTCCCTGGCCCCGTGACAC
TCAGGAGTTAATAAATGCCTTGAGGAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5516

MARAAALLPSRSPPTPLLWPLLLLLLLETGAQDVRVQVLPEVRGQLGGTVELPCHLLPPVPGLYISLVTWQRPDA
PANHQNVAAFHHPKMGPSFPSPKPGSERLSFVSAKQSTGQDTEAELQDATLALHGLTVEDEGNYTCEFATFPKGSV
RGMTWLRVIAKPKNQAEAKVTFSQDPTTVALCISKEGRPPARISWLSSLDWEAKETQVSGTLAGTVTVTSRFTL
VPSGRADGVTVTCKVEHESFEEPALIPVTLSVRYPPPEVSISGYDDNWYLGRTDATLSCDVRNPEPTGYDWSSTS
GTFPTSAVAQGSQQLVIHAVDSLNTTFVCTVTNAVGMGRAEQVIFVRETFRASPRDVGPLVWGAVGGTLLVLLLL
AGGSLAFILLRVRRRRKSPGGAGGGASGDGGFYDPKAQVLGNGDPVFWTFVVPGPMEPDGKDEEEEEEEKAKEG
LMLPPPPALEDDMESQLDGSLISRRVYV

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FIGURE 5517

AGTCTCCGCCGCCCGTGAACATGGAGCCCCCGACGCACCGGCCAGGCGCGCGGGGCCCGCGGCTGCTGTT
GCTCGCAGTCCTGCTGGCGGCGCACCCAGATGCCCAGGCGGAGGTGCGCTTGTCTGTACCCCCGCTGGTGGAGGT
GATGCGAGGAAAGTCTGTCAATTCTGGACTGCACCCCTACGGGAACCCACGACCATTATATGCTGGAATGGTTCCCT
TACCGACCGCTCGGGAGCTCGCCCCCGCTAGCCTCGGCTGAGATGCAGGGCTCTGAGCTCCAGGTACAATGCA
CGACACCCGGGGCCGAGTCCCCCATAACCAGCTGGACTCCCAGGGGCGCCTGGTGTGCTGAGGCCAGGTGGG
CGACGAGCGAGACTACGTGTGCGTGGTGAGGGCAGGGGCGGCAGGCACTGCTGAGGCCACTGCGCGGCTCAACGT
GTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCCAACAAAGGGACACTGTCTGTGATGGAGGACTCTGCCCAGGA
GATCGCCACCTGCAACAGCCGGAACGGGAACCCGGCCCCCAAGATCACGTGGTATCGCAACGGGCAGCGCCTGGA
GGTGCCCGTAGAGATGAACCCAGAGGGCTACATGACCAGCCGCACGGTCCGGGAGGCCCTCGGGCCTGCTCTCCCT
CACCAGCACCTCTACCTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCACTACAGCCT
GCCCAGGGGCCGCCACGGCCGCTGGACAGCCCCACCTTCCACCTCACCTGCCTATCCACGGAGCACGTGCA
GTTCTGGGTGGGCAGCCCGTCCACCCAGCAGGCTGGGTACGCGAGGGTGACACTGTCCAGCTGCTCTGCCGGGG
GGACGGCAGCCCCAGCCCGAGTATACGCTTTTCCGCTTCAGGATGAGCAGGAGGAAGTGCTGAATGTGAATCT
CGAGGGGAACCTTGACCCTGGAGGGAGTGACCCGGGGCCAGAGCGGGACCTATGGCTGCAGAGTGAGGATTACGA
CGCGGCAGATGACGTGCAGCTCTCCAAGACGCTGGAGCTGCGCGTGGCCTATCTGGACCCCTGGAGCTCAGCGA
GGGGAAGGTGCTTTCTTACCTCTAAACAGCAGTGCACTGCTGAACTGCTCCGTGCACGGCCTGCCACCCCTGC
CCTACGCTGGACCAAGGACTCCACTCCCTGGGCGATGGCCCCATGCTGTGCTCAGTTCTATACCTTCGATTTC
CAATGGCACCTACGTATGTGAGGCCTCCCTGCCACAGTCCCGGTCCCTCAGCCGCACCCAGAATTTCAGCTGCT
GGTCCAAGGCTCGCCAGAGCTAAAGACAGCGGAAATAGAGCCCAAGGCAGATGGCAGCTGGAGGGAAGGAGACGA
AGTCACACTCATCTGCTCTGCCCCGCGGCCATCCAGACCCCAAATCAGCTGGAGCCAATTGGGGGGCAGCCCCGC
AGAGCCAATCCCCGACGGCAGGGTTGGGTGAGCAGCTCTCTGACCCTGAAAGTGACCAGCGCCCTGAGCCGCGA
TGGCATCTCCTGTGAAGCCTCCAACCCCCACGGGAACAAGCGCCATGTCTTCCACTTCGGCGCCGTGAGCCCCCA
GACCTCCCAGGCTGGAGTGGCCGTATGGCCGTGGCCGTACGCGTGGGCCTCCTGCTCCTCGTCGTTGCTGTCTT
CTACTGCGTGAGACGCAAAGGGGGCCCCCTGCTGCCGCCAGCGCGGGAGAAGGGGGCTCCGCCGCCAGGGGAGCC
AGGGCTGAGCCACTCGGGGTGCGAGCAACCAGAGCAGACCGGCCCTTCTCATGGGAGGTGCCTCCGGAGGAGCCAG
GGGTGGCAGCGGGGGCTTCGGAGACGAGTGCTTGAGCCCAAGAACCTCCTAGAGGCTGTCCCTGGACCTGGAGCTGC
AGGCATCAGAGAACCAGCCCTGCTCACGCCATGCCCGCCCCCGCCTTCCCTCTTCCCTCTTCCCTCTCCCTGCC
AGCCCTCCCTTCCCTTCTCTGCCGCAAGGCAGGGACCCACAGTGGCTGCCTGCCTCCGGGAGGGAAGGAGAGGG
AGGGTGGGTGGGTGGGAGGGGGCCTTCCCTCCAGGGAATGTGACTCTCCAGGCCCCAGAATAGCTCCTGGACCCA
AGCCCAAGGCCCAGCCTGGGACAAGGCTCCGAGGGTGGGTGGCCGGAGCTATTTTACCTCCCGCCTCCCTGCTC
TGGTCCCCCACCTGACGTCTTGCTGCAGAGTCTGACACTGGATTCCCCCCCCCTACCCCGCCCCCTGGTCCCCT
CCTGCCCCCGCCCTACCTCCGCCCCACCCCATCATCTGTGGACACTGGAGTCTGGAATAAATGCTGTTTGTACACA
TC

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FIGURE 5518

MEPPDAPAQARGAPRLLLLAVLLAAHPDAQAEVRLSVPPPLVEVMRGKSVILDCTPTGTHDHYLEWFLTDRCGAR
PRLASAEMQGSELQVTMHDTRGRSPPYQLDSQGRVLAEAQVGDERDYVCVVRAGAAGTAEATARLNVFAKPEAT
EVSPNKGTL SVMEDSAQEIATCNSRNGNPAPKITWYRNGQRLEVPVEMNPEGYMTSRTVREASGLLSLTSTLYLR
LRKDDRDASFHCAAHYSLPEGRHGRLDSPTFHLTLHYPTHEHVQFWVGSPSTPAGWVREGDTVQLLCRGDGSPE
YTLFRLQDEQEEVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTLELRVAYLDPLELSEGKVLSP
LNSSAVVNCSVHGLPTPALRWTKDSTPLGDGPMLSLSSITFDSNGTYVCEASLPTVPVLSRTQNFTLLVQGSPEL
KTAEIEPKADGSWREGDEVTLICSAARGHPDPKLSWSQLGGSPAEP IPGRQGWSSSLTLKVTSAISRDISCEAS
NPHGNKRHVHFGAVSPQTSQAGVAVMAVAVSVGLLLLVAVFYCVRRKGGPCCRQRREKGAPPPGEPGLSHSGS
EQPEQTGLLMGGASGGARGGSGGFGDEC

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FIGURE 5519

TCCCAGCCGCACCGGTCTTTCCCGGCACACGCGAGGCTCCCATGGCTCTGGCGGTGGCCCCGTGGGGGCGACAGT
GGGAAGAGGCCCCGCGCCCTGGGCCGGGCAGTCAGGATGCTGCAGCGCCTAGAAGAGCAATGCGTCGACCCCCGGC
TGTCCTGTAGTCCCCCTTCGCTGCGGGACCTGCTGCCCCGCACAGCGCAGCTGCTTCGAGAGGTGGCCCATTCTC
GGCGGGCGGCCGGCGGAGGCGGCCCGGGGGTCCCGGCGGCTCTGGGGACTTTCTACTCATCTACCTGGCCAATC
TGGAGGCCAAGAGCAGGCAGGTGGCCGCGCTGCTGCCTCCCCGGGGCCGAAGGAGTGCCAACGACGAGCTCTTCC
GGGCGGGCTCCAGACTCAGGCGACAGCTGGCCAAGCTGGCCATCATCTTCAGCCACATGCACGCAGAGCTGCACG
CACTCTTCCCCGGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCCCCCGCCACACCTTCTGGAGGG
AAAGTTGCGGAGCCCGGTGTGTGCTGCCCTGGGCTGAGTTTGAGTCCCTCCTGGGCACCTGCCACCCTGTGGAAC
CAGGCTGCACAGCCCTGGCCTTGCGCACCACCATTGACCTCACCTGCAGCGGGCACGTGTCCATCTTCGAGTTCG
ACGTCTTACCAGGCTCTTTTCAGCCATGGCCAACACTCCTCAAGAACTGGCAGCTCCTGGCAGTCACCCACCCAG
GCTACATGGCCTTCCTCACCTATGATGAGGTCCAAGAGCGTCTGCAGGCCTGCAGAGACAAGCCAGGCAGTTACA
TCTTCCGGCCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGCTCAGATGGCAGCATCCTGCAGA
CCATCCCTGCCAACAACCCCTGTCCCAGGTGCTCCTGGAGGGACAGAAGGACGGCTTCTACCTCTACCCAGATG
GAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACCCACGAGCGCATCCACGTGTCAGAGGAGC
AGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTCTGCAAGATCTGTGCTGAGAGCAACAAGGATGTGA
AGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCTGCCTGGCTGCCTGGCAGCACTCGGACAGCCAGACCTGCC
CCTTCTGCCGCTGCGAGATCAAGGGCTGGGAGGCCGTGAGTATCTACCAGTTCTACGGTCAGGCTACTGCTGAGG
ACTCAGGGAACAGCAGTGACCAGGAAGGCAGGGAGTTGGAGCTGGGGCAGGTGCCCCCTTTCGGCTCCTCCATTGC
CCCCACGGCCAGATCTGCCCCCAGGAAGCCCAGAAATGCCAGCCGAAAGTGAGACTCCTAAAGGGGAACTCCC
CTCCAGCTGCGCTGGGACCCAGGACCCTGCCCCGGCCTTGAAGGCCAGGGCACCCAGATGTGCTGCTCAAGGGAG
CCCCAAGGGCTGGAAGGGGGTTGTGAAACCGAAATAAACTGCCAAGCCTGGTCTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 5520

MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAHSRRAAGGGPGGPGG
SGDFLLIYLANLEAKSRQVAALLPPRGRRSANDELFRAGSRLRRQLAKLAIIFSHMHAELHALFPGGKYCGHMYQ
LTKAPAHTFWRESCGARCVLPWAEFESLLGTCHPVEPGCTALALRTTIDLTCSGHVSIFEFDVFTRLFQWPPTLL
KNWQLLAVTHPGYMAFLTYDEVQERLQACRDKPGSYIFRPSCTRLGQWAIGYVSSDGSILQTIPANKPLSQVLL
GQKDGFIYLYPDGKTHNPDTELGQAEPQQRIVHSEEQLQLYWAMDSTFELCKICAESNKDVKIEPCGHLLCSCCL
AAWQHSDSQTCPCRCCEIKGWEAVSIYQFYGQATAEDSGNSSDQEGRELELGQVPLSAPPLPPRPDLPPRKPRNA
QPKVRLKGNSPPAALGPQDPAPA

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FIGURE 5521

ACCATTGGAGCTGAGGCGGCTGCTGCTCTCGGGGGAGGTGTTGGCGCTCCGGTCAGGGGAGGGGTCTGGCTGGGA
GGTGAAGCAGGCCGGGTGGCCTTCCCCCTCAGGATGTCGATGACCCTGCGGCTGCGCGCCACCATGAGCGGCGT
GTCGTTGTGGCAGTTCTTGAGGCTGCTGTCAGCGCCGCTGCGGACCAGCGTGCGCACCAGCGGGAGGAGCCCGCG
GCCGGACGCTGAGTGCAGGGCGGAGCTGCCGGAGTACATTTGCGCGTTACGTTGGCGCCGTGCTGCAGCAGCAG
CTGCACCATGCTAAGGCTGTTGTTTTCCACGGCGTGGATGAGCGGGGAGCGGCCG

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FIGURE 5522

GCCCCGTATGCCCCGCGGGCGCATGTGACGAGGGGCGCGTGGACTGCGCACCCGGCCCCAAGGCCACTGGACTCCC
GGGCGCCGCGCTGCCGCTCCGCAAGCGCCCGCTGCGCCGCCCTTCCCCGGAGCCCGCGCTCCCCGCGGGCGCTG
CGGGCCTTGTCGTCCCCCTGGACCTCTGCGCGGCGGCTGCGACCTGCCGGCGGTCCCCGGGCCCCCCCCACGGCC
TGGCCCGCCGGAGGCGCTTTACTACCCCGGAGCCTTACTGCCTTTGTACCCCACTCGGGCCATGGGCTCCCCGTT
TCCTCTGGTGAACCTGCCTACACCCCTATACCCCATGATGTGCCCCATGGAACACCCCTTTCTGCTGACATCGC
CATGGCCACCCGTGCAGATGAGGACGGAGACACGCCTCTCCATATTGCTGTGGTGCAGGGTAACCTGCCAGCTGT
GCACCGGCTGGTCAACCTCTTCCAGCAGGGGGGCGGGAGCTCGACATCTACAACAACCTACGGCAGACACCGCT
CCACCTGGCTGTGATCACCACATTACCGTCTGTGGTCCGGCTCCTGGTGACAGCTGGTGCCAGCCCCATGGCGCT
GGACCGCCATGGCCAGACGGCCGCTCACCTGGCGTGCGAGCACCGCAGCCGACCTGCCTGCGAGCCCTGCTGGA
CAGCGCAGCTCCGGGCACGTTGGACCTGGAGGCCCGCAATTATGACGGGCTCACCGCCCTGCACGTGGCAGTGAA
CACCGAGTGCCAAGAAACCGTGCAGCTCTTGCTAGAGCGCGGTGCCGACATCGACGCAGTGGACATTAAGAGCGG
CCGCTCCCCGCTCATCCACGCCGTGGAAAACAACAGCCTTAGCATGGTGCAGCTGCTGCTGCAGCACGGCGCCAA
CGTGAAACGCGCAAATGTACTCCGGCAGCTCCGCCCTGCACTCAGCGTCCGGCCGCGCGCTCCTCCCGCTGGTGCG
CACGCTGGTCCGCAGCGGCGCTGACAGCAGCCTCAAGAACTGCCACAACGACACGCCGCTCATGGTGGCGCGCAG
CCGCAGGGTCATCGACATCCTGAGGGGGAAGGCCACCCGGCCTGCTTCCACCTCCCAGCCAGACCCCTCCCCTGA
CCGGAGCGCCAACACCTCCCCGAGAGCAGCAGCCGCTCAGCTCCAATGGTCTTCTCTCCGCATCACCATCCTC
CTCACCTCCCAGTCTCCCCCAGGGACCCCCCTGGATTCCCCATGGCTCCTCCCAATTTCTTCTTCTTCCCC
ATCTCCACCCGCCTTCTGCCCCTTGCTGGGGTCTTCCGAGGCCCTGGCCGGCGGTTGCCCCCTCCCCAGCTCC
AGGAGGCAGCTGAGGGGGATGGGGGGGCAGATCTTGGACTCATGAGGAGGGGCCCCCTGCCCTGTGGGGTCAAC
CCTTCTGGAAACTGTGAAGATCTCACTCTGCCCCCCCCCATCTTCGGGACCAGGATTTGCACAGAAGCACATGCA
CCTACCCATACACCCCTCTTCTGAGCACAGATGTTCCCCCATCTCGCTCCCTCCCAGGACTCTGACCCACAGCAT
TCTCAGGCACCAGTCCCTGTCCGGAATGCCACCCACATCTTCCATTTCCATGTCCCCTCCCAGAGCTGGTGGACC
CAGGGAACAGCCACTCCCCTCCACTCTCTACCAGATAACTGAGGAGGGGAGAGGTGGGCCGTAACGGGCACGGAT
CACGATGTAAATTATTAAGCATTTTGGTTGGATTTCTTTTGTAATAAACTATTTTTGTACCAT

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FIGURE 5523

CCGAGGGTCAGGCTGCAGAAGCCCAGAATCCCACCCAGTCCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGCATGATCTCCTTCTGTCCAGACTGTGGCAAAAG
TATCCAAGCGGCATTCAAATTCTGCCCCCTACTGTGGAAATTCTTTGCCITGTAGAGGAGCATGTAGGGTCCCAGAC
CTTTGTCAATCCACATGTGTTCATCCTTCCAAGGCTCAAAGAGAGGGGCTGAACCTCCAGTTTTGAAACCTCTCCTAA
GAAAGTGAAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA
AGATACTCTGAGTTTCTCTGAGAGATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCCAAAAGCAGCCCTCAGAA
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA
GAGTGGGCGACAGTGGAAGCTGAAGTCCTTCCAGACCAGGGACAACCAGGGCATTCTCTATGAAGCTGCACCCAC
CTCCACCCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAACCTGGATGCCAAGGATGGGCGCTT
GTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCCAAGCCTCTGCAAGTCAACAAGTGAAGAAGCTGTACTCGAC
CCCACTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTCACCAGGACAAATACAGGTTCTTGGTGTACCCAG
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTCAGCCCAAAGCATGTGCTGTCAGAGAGGTCTGTGCTGCAGGT
GGCCTGCCGGCTGCTGGATGCCCTGGAGTTCCTCCATGAGAATGAGTATGTTTATGGAAATGTGACAGCTGAAAA
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCCGCTATTGCCCAAG
TGGCAAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTCATTAGCATGGACCT
GCACAAGGGATGCGGGCCCTCCCGCCGCAGCGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGG
GTTTCTGCCATGGACAAATTGCCCTTCCCAACACTGAGGACATCATGAAGCAAAAACAGAAGTTTGTGATAAGCC
GGGGCCCTTCGTGGGACCCTGCGGTCACTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG
TGTGTCTCCATATGACCCCATTTGGCCTCCCGATGGTGCCCTTAGGTGGAATCCAGAAGTTTCCATTTGCAGTGTGC
AACAGAAAAAAAATGAAGCAATGTGACTCAAGGCCTGCTGTTTAAATCACAGATAAGCTTCTAGAACAAGCCCTG
GAATGTGCATTCTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCGGAGGGCCCCAGTTTCCCTC
CCGTGAATGTGAAGTTCCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCCTAGCAAAGCTGGATGGGGTTGGGC
CGGCCCACAGGGGGGACCCCTCCTACCCTTGACTCCTCTGTGCTTTGGTAATAAATTGTTTTACCAGAG

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FIGURE 5524

MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNP HVSSFQGSKRGLNSSFETSPKKVKWSSTVTSPRLS
LFSDGDSSESEDTLSSSERSKSGSRPPTPKSSPQKTRKSPQVTRGSPQKTSCSPQKTRQSPQTLKRSRVTTSL
ALPTGTVLTDKSGRQWKLSFQTRDNQGILYEAAPTSTILTCDSGPQKQKFSLKLDKDGRLFNEQNFFQRAAKPL
QVNKWKLYSTPLLAIPTCMGFGVHQDKYRFLVLP SLGRSLQSALDVSPKHVLSERSVLQVACRLDDALEFLHEN
EYVHGNVTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQS
LGYCMLKWLYGFLPWINCLPNTEDIMKQKQKFVDKPGPFVGP CGHWIRPSETLQKYLKVVMALTYEEKPPYAMLR
NNLEALLQDLRVSPYDPIGLPMVP

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FIGURE 5525

ATTCATTCCCTGTCCCTCGGATCACAGTCTCTTCTCACTACAGTGTGCGCGCCTCTGCCTGCGTAGCCCCGGCCAT
GGCTCTGTAGCCTCGACCCCTTTGTGCCCCCGGCCCGTCTCCGCGCTCACCACGCCTGCGCTCTCCGCTCCCACC
TTCTTTCTTCAGCCGAGGCCGCCGCCGCTCTCCTTGCTGCAGCCATGGAGTCTTCCACTTTGCGCTTGGTGCCT
GTCTTCGCCCACCTGAGCATCCTCCAGAGCCTCGTGCCAGCTGCTGGTGCAGCCTCTCCTGTTGCCATCAGTGCC
CAGCACCTGTGCTACAGCCATGTCACTCCTGGCGACCCTGGGGCTGGAGCTGGACAGGGGCCCTGCTCCCAGCTAG
TGGGCTGGGATGGCTCGTAGACTATGGGAAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCTTGG
GGGAGCCCTGGAGGGCGGGCTTCCAGTGGGGGGAGAGCCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGA
GCGAGTTGATTTACAGCTCTCCTCCCTCTGGAGCCTCCCCTACCCCCGGCACCCCTCCCCAACCTTCCCCAAC
CCCACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCCTAGATGC
CCCGCCCCCTCCCACCACCCTCCCCGCCGCCACTACCACCACCACCCTACCACCAGCCCCCTCCCTCCCCCTGTC
CCTCCCCCTCCTTTGACCTCCCCCAGCCCCCTGTCTTGGATACTCTGGACTTGCTGGCCATCTACTGCCGCAACGA
GGCCGGGCAGGAGGAAGTGGGGATGCCGCTCTGCCCCGCCACAGCAGCCCCCTCCTCCTTCCACCTCAACC
TTCTCGCCTGGCCCCCTACCCACATCCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAA
GTCGGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGGTGAGGCCCTGGAGGGCGAGTGCCAGGGGCTGGA
GGCACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGCGAGATCCAGTACGTCAAGGACCTGCTCAT
CGAGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTTAGAAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTC
TTCAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATG
CTTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGAGGCCAGGAGGTCAATACCAGCCTGGGCA
ACATAGTAAGACCCTGTCTCTATTAAAAAAAAAAAAATCAACCCTTCTTCCCCACCAAAACCACCAACTCCTCTCT
ACTCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCGTATTTCTGGATCTCCTTCCCTCCTTTCTC
GTCCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCGTCACATAACAGCCGAGGCACCGAGGCCACACA
GGGAAGCAGCTGGGAGCTTGGAAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGT
GGGTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGG
GACCCATATCCTACAGGCAAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGG
CCAGGTTTGCAGTGCGGGAAGATGAGCAGGCCAGTGGGAGGAGGGGCAGGGCAGGGCTGTAGTTGGTGACTGGGT
GTTCATTTTAGCTCTAAGAAAAAAAATCAGTGTTTCGTGAAGGTGTTGGAGAGGGGCTGTGTCTGGGTGAGGGAT
GGCGGGGTACTGATTTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTCTG

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FIGURE 5526

MSLLATLGLELDRALLPASGLGWLVDYGKLPPAPAPLAPYEVLGGALEGGLPVGGEPLAGDGFSDWMTERVDFTA
LLPLEPPLPPGTLPPQSPTPPDLEAMASLLKKELEQMEDFFLDAPPLPPPSPPPLPPPLPPAPSLPLSLPSFDL
PQPPVLDTLDLLAIYCRNEAGQEEVGMPLPPPPQPPPPSPPQPSRLAPYPHPATTRGDRKQKKRDQNKSAALRY
RQRKRAEGEAGEGECQGLEARNRELKERAESVEREIQYVKDLLIEVYKARSQRTSC

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FIGURE 5527

CGGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGGCGGCCTCGG
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAACCCACCTTGTCCTCATCCACATCAGGACATCCCAGC
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCTGA
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCTTCCCAGTCTGACAAATGGCCTTTCTTAAGTTCTTCATT
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCCAGCTGCTCTGAC
CCCAATATCAGGAACCTTGGCATCTCTGATCTAACAAGGGCACCCTAACAAGGACAAAGCCACCATCATTACCTT
TGATTCCGCACATGCCCAACGATGACTTCTGTCTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC
AGAGGCAGCCATGCACCTTGCACCTCCTCGTCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGGA
AGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA
CCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG
CCAAGGTGCTCAGCGATGCTGGACACAAGGTCAACCTCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTCC
ACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTACCCAGTACGACAAGAACACGTGGACGGAGGTGC
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCCGAGAAGCTGGGCTACGCCTTGCGTCCCCAGGAAA
AGGGCCACTCGCCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCA
GAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGG
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAX
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCCGCGCGCGCTGCTGAG
CTCGCTGTCCGGGCTTGCTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA
GATCGAGACCTCTCCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGCTGCTGACGGCGAGCGGACC
GGCGGTGAAGCGCATCACCTTCTCGCCGCGGCTGCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGT
GCCGGCCACCAAGGTGTTCTTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAAA
CACCGATCGCCCGTGCAGCATGATTTTCTACCCGCGCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG
GTCGGACGCGGCGGCAGCGTTGCGCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC
ATTGCACGGGCCTGTCTGTCGCCAGCTCTGGGACGGCACCGGCGTCTCAAGCGTTGGGCGGAGGACCAGCACAG
CCAGGGTGGCTTTGTGGTACAGCCGCGGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG
CATCTACTTTGCCGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC
CGCCATCAAGATCAACAGCCGGAAGGGGCCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA
GGGGCAGGGCATGTGCATGGGGTGGCCAGCAGCCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCTCC
AGTCCAAGGCCAGTTATCTCTCAAAACACGACCCACACGAGGACCTCGCATTAAGTATTTTCGGA

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FIGURE 5528

[illegible]

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FIGURE 5529

CTGTAGTCCTGGCACTTTGAGAGGACAAAAGAGGGAGGATCGCTTGAGCCCAGGAGTTGAAGACCAGGGCAACAGA
AAATCTTCCCAAGGCTGCAGACACCGACGGATTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAG
CCATGAGCGGGTTTAATTTTGGAGGCACCTGGGGCCCCCTACAGGCGGGTTCACGTTTGGCACTGCAAAGACGGCAA
CAACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAAC
CAGCCACAAGTACCCCTTCCACCGGCCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCA
CTTTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGA
GCAACACAGCTGCCACCCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCA
TATCGAGCACCGTACCTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGG
CTCCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCT
CAGCAGGGAATTAGCCCAGCCCACGGCACCTGCCACGTGCCCCTTCACTCCGGCCACGCCAGCAGCCACCACAG
CAGGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCCAGCCTCTTTGCGTCAA
TAGCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCCA
CTGCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCGGGCACCTCCACAACAACATCCACCGCTG
CCACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCCTGGCGCCAG
CCGGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGG

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FIGURE 5530

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTGCGGGGCGCGACAGCTGGAAGAGCCGAACG
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCATGGTCGAGGAGCCCTG
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGGCCACAGGGCTGCCACTGCTGCTCGGCCCTCCTGCG
CCCCACCAGCACCCACAGCCACCCAGTCCCACACCCAGCCACCCCGGCCCTACCCTGGCCAGAGAGGACAACGAG
GAGGACGAGGATGAGCCCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT
GTGATGGATGAGGACGCCACCCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCGAGAGTACAGATGATGGC
AGCCTGAGCGAGGAGACCCCCGCGGGCCCCCCCCACCTGCTCAGTGGCCCCAGCCTCAGCCCTACCCACACAGCAG
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTCTATCAGAT
GAGGAGAATGGGCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGGCGAGCATGCGCGCGCTGGTGCTGCGAGAG
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG
AAATATTGAAGTCCAGGGAGGGAGCGCCCCGGGCCGCGTCCGCCCCGTCCACACTACGCCCCCGCCCCACTCCC
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCCTCCTTGCCTCTCCATTCCCAAGATTGTCCCGCCTCTGC
CAATCCCCGCGCTCCTTCCAGCCCACGACCTGCCGCGCCGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT
GTCGTCTCTCTCCGCCTAGCGACAGATTCTTCTATTAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT
CAACTCCTTTTGTCTTCCGCCTAGCGACAAGGGATTGCTCGCACGGCATTGGCTCCATCCCTAGTCGCTGGACA
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTCACCGTCCGCTTTTCTCTGA
GTTCTCCCTCCCAATTGGCTCCAGCTTCTTGGGGGCGTGGCCAAGCCCTCCTCTTCCCAGAATTGGCCCCGGGGCC
TTCAATTTACGTTCTTTTACTACGGGGACTGGGGTCGTCTTTGCCACGTCCCGACAACCTTGTTCCTGACCCC
CTCAGGGATGGCCCCAACTGTCCCTGCCTCTGGCACCCCCCTTTCATTGGTTCCATCCATCCCCACAACAGCCTG
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA
AAGGGCCCTCGTCCACCCAAGGTGGGGGGCAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAAGAGTTTTACCTCTGAGAT

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FIGURE 5531

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCCG
GGCCGGCACCCAGGATGGGCGAGGTGGAGGCCCGGGCCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCCC
CATCTTCCTGCCCTCGGACGGGCAAGCCCTGGTCCTGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAATCCTG
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTCGCAGATCCTGAGACCCGGACAGTGGCAGTGAACAGCTGGGA
GTTAACCCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT
CCGCCTGGCACCCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCA
AACCCCGCTGGGAGAACTTGGAGAAGTTGCTAGTGTTCACCGCAGCTGGGGTGAAACCCAGGGCAAGGTGGCT
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTTCCCACTGGCCCCAGTGACTGGAGG
ATCTTGTACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGTATCTTCACCAAC
CAGATGAGCATCGGGCGCGGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG
GGGGTCCCCCTTCCAGGTGCTGGTGGCCACGCACGCAGGCTTGTACCGGAAGCCGGTGACGGGCATGTGGGACCAT
CTGCAGGAGCAGGCCAACGACGGCACGCCCATATCCATCGGGGACAGCATCTTTGTGGGAGACGCAGCCGGACGC
CCGGCCAACTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC
CTGCCCTTCGCCACGCCTGAGGAGTTCTTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCCAGCCTTTGATCCG
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGGAGGTGGTT
GTCGCAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTGCGCCGGATATGTCCAC
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAAACGG
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCAGCCGCGGGCGTC
CCCTGCCGCTGCTTCCTCTTCACCGCCACTCTGGAGCAGGCGCGCCACAACAACCGTTTTGAGAGATGACGGAC
TCCTCTCATATCCCCGTGTCAGACATGGTCAATGTATGGCTACAGGAAGCAGTTCGAGGCCCAACGCTGGCTGAA
GGCTTCTCTGCCATCCTGGAGATCCCGTTCCGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC
TCCGAGGGCTGAGCCCCGCCAGCTCCCCCTCCACAATAAACGCTGTTTCTCCTTG

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FIGURE 5532

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGTATGGTCCCCGGGTCCGAGGGCCCGGCCGCGCCGG
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACCTGGGACCCTACTTCGAGGGGGCTCCGCAA
GCACTACCTGCTCCCGGCCATCGAGTATTTAATGGTGGTCTCTCTGCTGAGACGGACTTCGGGGGAGACTATGG
GGGGACCCAGTACAGCCTCGTGGTGTTCACACAGTGGACTGCGCTCCCGAGTCTACGTACAATGTCACGCTCC
CACCAGCAGCGCCTATGAGTTTGTACCTGGCTCGATGGCATTAAAGTTCATGGGCGGGGGTGGTGAGAGCTGCAG
CCTCATCGCGGAAGGACTCAGCACAGCCTTGCAGCTGTTTGTGACTTCAAGAAGATGCGCGAGCAGATTGGCCA
GACGCACCGGGTCTGCCCTCTCATCTGCAACTCACCCCATACTTGTTCCTGCTGTTGAGAGCACCACGTACTC
TGGATGCACAACCTGAGAATCTTGTGCAGCAGATTGGGGAGCGGGGATCCACTTCTCCATTGTGTCTCCCCGGAA
GCTGCCTGCGCTTCGGCTTCTGTTTGAGAAGGCAGCCCCCGGCCCTTGCTGGAGCCGCTGCAGCCTCCGACAGA
TGTGAGCCAGGACCCGAGGCACATGGTGTCTGGTTCGGGGACTCGTGTGCTGCTGTTGGGGGTGGCTCAGCCCTAGG
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCCGACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA
GCAGCCTCTGCCCCCGTCCCCCGCAGTACCAGGTTCCCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA
TGCAGTGGAGGCTGCCAAGAACCAGAAGGCTGGGCTGGGCCCTCGCTTCTCGCCCATCACCCCTCTCCAACAAGC
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGCTCCCCAACTACCCCAAGGACCCCTTGCGCCCCCA
GCCACCACCTGCTTCCAGCCAGTCTGGTCTCCACTGTGGCCCCCTGGCTCCGGCCTGGCTCCACGGCACAGCC
CGGGGCACCGTCCATGGCAGGCACTGTGGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCCAGCTGGGAGCCCC
AGCCCTCGGTGGGCAGCAGTCAGTCTCCAATAAGCTTCTGGCCTGGAGCGGGTCTGGAGTGGCAAGAGAAACC
CAAACCTGCCTCAGTGGATGCCAACACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG
CCCTTTGTTCCGGAACCTCAAGGATGGTCCAGTTCCATTTACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGCATTCCCCCACACGGCGCCCTGTGAGGTGCGCGTGTCTCAT
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCTACGACCAGAGCGGCTTCGTCAACGGCAT
CCGGCAGGTCAACCAACCACAAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCGAGGAATGGGGGGACA
GCAGGCACCCCCCAGGGCTGGGGCCATTCTGGAGGACCAAGCCAGGCCCTCACAGAATCTGCTCCAGCTCCGCC
CACCAGCAGCCCCAGCCTCAGGGTACCGTAGGGGCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCCC
AGCCCCCGCCAGGTGCCCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGCCCACCCCTCCTGGACCCATCCTTCGGC
CCCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCGACAGTGGGGTGGCCC
CACCCAGGCCTCCCTCCACCACCTGCCCAGTCTGGCCCGCACAACTTCCCCCTCGGGCTCCACTGCCAGGTAA
GGGGACCCGGGGGAGGGCAGAGGTCTGGACTGAGTGTCCAGCAGCTCCTGGGCTAGAGCACCAAGACCAAGTGC
TCTTGGGAAGTAAAGACATAGGATCCAAGAATGAGGGTCCCCCAGCCGGGCCTGCAGCCAGCGTCATGGAGGA
CGACATCCTCATGGATCTCATCTGAATCCCCAACCCCAATAAAGTTCCCTTTTAAACAAAAA

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FIGURE 5533

MVPGSEGPARGSVVADVVFVIEGTANLGPYFEGLRKHYLLPAIEYFNNGGPPAETDFGGDYGGTQYSLVVFNTVD
CAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLSTALQLFDDFKKMREQIGQTHRVCLLICNSPP
YLLPAVESTTYSGCTTENLVQQIGERGIHFSIVSPRKLPALRLLFEKAAPPALLEPLQPFPTDVSQDPRHMLVRG
LVLFPVGGGSALGPLQSKQPVPLPPAAPSGATLSAAPQQPLPPVPPQYQVPGNLSAAQVAAQNAVEAAKNQKAGLG
PRFSPITPLQQAAPGVGPPFSQAPAPQLPPGPPGAPKPPPASQPSLVSTVAPGSGLAPTAQPGAPSMAGTVAPGG
VSGPSPAQLGAPALGGQQSVSNKLLAWSGVLEWQEKPKPASVDANTKLTRSLPCQVYVNHGENLKTEQWPQKLIM
QLIPQQLLTTLGPLFRNSRMVQFHFTNKDLESLKGLYRIMGNGFAGCVHFPHTAPCEVRVLMMLYSSKKKIFMGL
IPYDQSGFVNGIRQVITNHNKQVQQQKLEQQQRGMGGQQAPPRAGAHSGGPSQALTESAPAPPTAAPASGYRRGLW
GHGAAPAPRYCPAPARCPSRPSWSSFWPTPSWTHPSAEPFWGQPSAAKPPPQPTTAADWGAPTPGLPPPPAQSWP
AQLPPRAPLPGKGTRGRAEVWTECPSSSWARAPRPSAPGK

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FIGURE 5534

GGCACGAGGGCCCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCAC
TGACAGTCCCCACGTGAGGGACCGCGGTGGGAGTCCTAAATGGGGGAGGAGGGGACGGGCGGCACTGTGCATCTG
CTGTGCCTCGCGGCCCTCCAGCGGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGCGGCGCCCCCGCCCGTCAGCAG
CTCCCCGTTCTCTGTTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCT
GCGAGGACCGGAGAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATCACCCCTCATTGTTCTGTTCATCTGAG
GTGGGCATCTCTGAGCTGAGGCTGGAGAGACTACTCCAAATGGTGTGGAGCCATGGTCCCTTCTGTGGGACTT
GAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCTCATCGACAGC
TTCCTGGGGGACTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGCGTGATTCTCCAGAGGGGTCCCTC
TTGCAGGAAGCCCTCTCCGGGTTCGCTGAGGCCGCGGGCACGACCTTCGTCAGTCTGGTGGTGTCCGGCCGGGTG
GTGGCAGCAACAGAGGGTTGGTGGCGGCTGGGGACGCCCCGAGGCCGTGCTGCTCCCCTGGCTGGTGGGGTCCCTG
CCGCCGAGACCGCTCGCGACTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACC
CTGACTCTGCTGCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCCACCCCTCAGCCAGTTGTATCCACAG
CTTCTGGAGCGCTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCC
AGTGGCTTCCCCCTTCACACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAACCTGAAGCGCTGCCTCTTCACC
GTGGAGCCCTTGGGGGATAAAGAGCCTTACCAGAACAGCGCCGGCGCCTCCTCCGAAACTTCTATACCCTGGTC
ACCTCCACGCACTTCCCACCAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCC
AGAGCTTGCTACCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCCTGCTGGTGGCCTTGAGCTGGGGCTT
CGGCGGCTGCTGCTGCTGTCTCCCCAGAGTCCCACCCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCAT
GCCCTCACCCCACTTCTTTGACTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTTAGCGTCTCTCTGTT
TATTGCTCACAATAATACACAGCCCCTGGATGGGGAGGGGTAGGAGGGGCTACAACAGGGTGGGGTGGGAGGG
GAGGAGACATCCACTTCCCTGGCCCCCTCTCCCCTCTGTGCTTGGGGGGGAAAGGGAGGGAGGGGACTCCCCCTA
ACCCCCAGAATGTAAACAGCAGCAGATGAACAAAATAAAAATACAAAAGGCCGAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5535

MGEETGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQONLEVQLSSARTENTTVVWKSF
HDSITLIVLSSEVGISELRRLRLQMVFGAMVLLVGLLELTNIRNVERLKKDLRASYCLIDSFLGDSELIGDLTQ
CVDCVIPPEGSLLQEALSGFAEAAGTTFVSLVVSGRVVAATEGWWRLGTPEAVLLPWLVGSLPPQTARDYPVYLP
HGSPTVPHRLLTLTLPSLELCLLCGPSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDILGLL
LLHLELKRCLFTVEPLGDKEPSPEQRRLLRNFYTLVTSTHFPEPFGPPEKTEDEVYQQLPRACYLVLGTEEPG
TGVRLVALQLGLRRLLLLLSPQSPTHGLRSLATHTLHALTPLL

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FIGURE 5536

CGGCTCAGAGCTCCGGACCGCGGGCGGAGGGGAGGGGCGGGGCGGTGCCACGGCCTGCCAGCCCCGCCGCCG
CCCCCAGCCAGCCCTCCCCGCGGCCGGCTCGGCTCCTTGGCGCTGCCTGGGGTCCTTTCCGCCCGGTCCCCGCT
TGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACCGCCATCATGCCGGCCGTGTC
CAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGTAAAGAGCAAAGAGGCGGAAAT
TAAGAGAATCAACAAGGAAGTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTTGGATGGCTACAGTAA
GAAAAAATATGTGTGTAAACTGCTTTTCATCTTCCTGCTTGGCCATGACATTGACTTTGGGCACATGGAGGCTGT
GAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCTGTGCTGGTGAAGTCTGAA
CTCGGAGCTGATCCGCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCCACCTTCATGTGCCT
GGCCCTGCACTGCATCGCCAACGTGGGCAGCCGGGAGATGGGCGAGGCCTTTGCCGCTGACATCCCCCGCATCCT
GGTGGCCGGGGACAGCATGGACAGTGTCAAGCAGAGTGGGCCCTGTGCCTCCTTCGACTGTACAAGGCCTCGCC
TGACCTGGTGGCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCACATGGGTGTGGTCAC
GGCCGCGCTCAGCCTCATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTGCGTCTCTCTGGCTGT
GTCGCGCCTGAGCCGGATCGTCTCCTCTGCCTCCACCGACCTCCAGGACTACACCTACTACTTCGTCCCAGCAC
CTGGCTCTCGGTGAAGCTCCTGCGGCTGCTGCAGTGTACCCGCCTCCAGAGGATGCGGCTGTGAAGGGCGGCT
GGTGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAAATCCAAGAAGGTGCAGCATTTCAACGC
CAAGAACGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAGCCCCAACCTCCTGGTTCGGGC
CTGCAACCAGCTGGGCCAGTTCTTGCAGACCGGGAGACCAACCTGCGCTACCTGGCCCTGGAGAGCATGTGCAC
GCTGGCCAGCTCCGAGTTCTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAATGCCCTCAAGACGGA
GCGGGACGTGAGCGTGGGCGAGCGGGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAGCAATGCCAAGCAGAT
CGTGTGCGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGTCTGAAGGTGGCCAT
CCTGGCCGAGAAGTACGCCGTGGACTACAGCTGGTACGTGGACACCATCCTCAACCTCATCCGCATTGCGGGCGA
CTACGTGAGTGAGGAGGTGTGGTACCGTGTGCTACAGATCGTCAACAACCGTGATGACGTCCAGGGCTATGCCGC
CAAGACCGTCTTTGAGGCGCTCCAGGCCCTGCGTGTACAGAGAATGTTGAAGGTGGCGGCTACATCCTTGG
GGAGTTTGGGAACCTGATTGCTGGGGACCCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTT
CCATCTGTGCAGCGTGGCCACGCGGGCGCTGCTGCTGTCCACCTACATCAAGTTTCATCAACCTCTTCCCCGAGAC
CAAGGCCACCATCCAGGGCGTCTGCGGGCCGGCTCCAGCTGCGCAATGCTGACGTGGAGCTGCAGCAGCGAGC
CGTGGAGTACCTCACCCCTCAGCTCAGTGGCCAGCACCGACGTCTTGGCCACGGTGTGAGGAGATGCCGCCCTT
CCCCGAGCGCGAGTCTCCATCCTGGCCAAGCTGAAACGCAAGAAGGGGCCAGGGGCCGCGCAGCGCCCTGGACGA
TGGCCGGAGGGACCCCAGCAGCAACGACATCAACGGGGGCATGGAGCCCACCCCAGCACTGTGTGACGCCCCC
GCCCTCCGCCGACCTCCTGGGGCTGCGGGCAGCCCCCTCCCCGGCAGCACCCCCGGCTTCTGCAGGAGCAGGGAA
CCTTCTGGTGGACGTCTTCGATGGCCCGGCCAGCCCAGCCTGGGGCCCCACCCCAGGAGGCCTTCTCAG
CGAGCTGGAGCCGCTGCCCCGAGAGCCCCATGGCTTTGCTGGCTGACCCAGCTCCAGCTGCTGACCCAGGTCC
TGAGGACATCGGCCCTCCATTCCGGAAGCCGATGAGTTGCTGAATAAGTTTGTGTGTAAGAACAACGGGGTCTCT
GTTGAGAACCAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCCGACAGAACCTGGGCCGATGTATCTCTTCTA
TGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTCACCCACTGTGGTTTACCCGGGAGACCTCCAGACTCAGCT
GGCTGTGCAGACCAAGCGCGTGGCGGCGCAGGTGGACGGCGGCGCGCAGGTGCAGCAGGTGCTCAATATCGAGTG
CCTGCGGGACTTCTTGACGCCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCCCAGGCCCTCACCCCT
GAAGCTCCCAGTGACCATCAACAAGTTCTTCCAGCCCACCGAGATGGCGGGCCAGGATTTCTTCCAGCGCTGGAA
GCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCAACCCCATGGACGCAGAAGTTACTAA
GGCCAAGCTTCTGGGGTTTGGCTCTGCTCTCCTGGACAATGTGGACCCCAACCTGAGAACTTCGTGGGGCGGG
GATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCGGCTGGAGCCCAATGCCAGGCCAGATGTACCG
GCTGACCCTGCGCACCAAGGAGCCCGTCTCCCGTCACCTGTGTGAGCTGCTGGCACAGCAGTTCTGAGCCCT
GGACTCTGCCCCGGGGGATGTGGCCGGCACTGGGCAGCCCCTTGGACTGAGGCAGTTTGGTGGATGGGGGACCT
CCACTGGTGACAGAGAAGACACCAGGGTTTGGGGGATGCCTGGGACTTTCTCCTCCGGCCTTTTGATTTTATTTT
TGTTTCATCTGCTGCTGTTTACATTCTGGGGGGTTAGGGGGAGTCCCCCTCCCTCCCTTTCCCCCCCCAAGCACAGA
GGGGAGAGGGGCCAGGGAAGTGGATGTCTCCTCCCTCCCACCCACCCCTGTTGTAGCCCCCTCTACCCCTCCC
CATCCAGGGGCTGTGTATTATTGTGAGCGAATAAACAGAGAGACGCTAA

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FIGURE 5537

AGGCGCAGACGGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTACAAAACTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG
CGCCGTGTCAGGGTCCGCAATCAGGTGGCGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCAGAAAGCGCATC
GACTTGTCTCTGCGCTCTCCCTATGGGGTGGCCGCCCCGGCCGCGTGAAGAGGAAGAAGCAAGAAGGGCCAGG
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT
TTTCCTGCCAAATAAACAGGATCAGCACTTTAC

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FIGURE 5538

MPVARSWVCHKTYVTPRRPFESRLDQELKLIGNVLLRLLRIGVLDEGKTKLDYILGLKIEDFLERRLQTQVFK
LGLAKSIHHAGVLIRQRRVRVRNQVANIPSFIVRLDSQKRIDLSLRSPYGVAAPAA

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FIGURE 5539

GTGGGCAGCCGAGGCCGCGAACTGCATCATGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCCGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGGTGGACGTCGGCTCGGGCACCGGCAT
CCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGTGTGTTCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCCGGGACAAGTGTGGCGCCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCA
CAAAGATGTGGCCATTAAGGAGCCCCCTAGTGGATGTCTGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATAACCGTCAAGGTGGAAGACCTGACCTTACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTTACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCTTGAGGCCCCGGCTCTCCC
GCCCTGCACGAGCCCAGGGGCTGAGCGTTCTAGGCGGTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGGCTGGGCTGGGGGGATGGGGAGGGCACATCGTGAAGTGTGTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 5540

MENFVATLANGMSLQPPLEEVSCGQAESSEKPN AEDMTSKDY YFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFKDKVVL DVGSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASSS
ASGWATASSTSPCSTPCSM PGTSVAPDGLIFPD RATLYVTAIEDRQYKDYKIHWVENYGFDMSCIKDVAIKEPL
VDVVDPKQLVTNACL I KEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
WKQTVFYMEDYLT VKTGEEIFGTIGMRPN AKNNRDL DFTIDLDFKQQLCELSCSTDYRMR

6006/6881
FIGURE 5541

AAGTAAGTATCCCCACTTTCAGGGTAGCATCCTCTTTCCCTAGTTATTTTCAGTGCAGAATCGATTACAGTGTAAG
CCTCTACCTCCTGCACCTTACCCCAATGTAGACCCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTTC
CAACACAGAACTTCCATTCAATTCCCCTCCGACTGCCCGCCTCCCTCCTCCAGGACAGAGCACGCCCCAGGTTTC
GAGACTGAACTACCCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCCCTCAGTGTAGACGCCTCCTCTTT
TCCTCTTTCCCTCCCTACTTTTTCTAGTTTTTCTGCAGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC
TCCACTTTCCCCAGAGTACACAGCCTGCCTTTCCACTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT
CGGACGCCACCAACGCTCTCCCGGGCTCTTCCGCGTTACCTACGATGGAAGGTTCGGGGCGTGCGGGCAGCTGGAA
CCCACCCCTGTCTTGGAGCTCCGGGTAGCTCTCAAACCTCGAGGCTGCGCACCCCCTTTCCCGTCAGCTGAGCTCT
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAAATAAAACCAACTTTATCATTCTTTGGGTAACAGACCCA
AAAGCCGATGGGACGGCCCGCTGGGCTGTTCCCGCCCCTATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG
GGAGCGTCACATGCAAATTGAGCGTGCACCCAGCGTTCCGCCCTTTCTACGCTGGGCCGGTTATCGACCCGGCCC
AGTGCGCAGGCGCGGGAAAGTTGAACATAAAGTTTGACGAGTTCAGTGGAGGAGACCGCAAGTTGAGTGGAG
GAGGCGGCGGTGGGGCCCCGGACCAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT
GAGGGTCCTAGCTGCCTTCCTTAGGCGTGGTGAGGCTGCCGGGTCTCCTGTTCCAACCTCCACCTAGAAGCCCTGC
CCAAGAAGAGCCAACAGACTTCCTGAGCCGCCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC
CTCTGAGTCCCCTCGGCCTTGCTCTCTGCCCATCCGCCCTGCTATGGTTTAGAGCCTGGCCCAGCTACTCCAGA
CTTCTATGCTTTGGTGGCCCAGCGGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCCAGAATT
ACAGGGTCCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT
CATTAAACCAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCCTGTCTCCGACTCTTTCGCCCG
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCCAAGCCGAGCATGCCCCGGGGCCCCCGCCTCCTTC
CCCGGAGCCCCTGCCCCGCTGGCCCTAGCCATGGAGCTGAGCCGGCGCTGGCCGGGCTGGGGGGCACCCCTGGC
CGGACTCAGCGTGGAGCAGTGCACAGCTTCACGCCCTGGATCCAGGCCACGGGGGCTGGGAGGGCATCCTGGC
TGTTTCACCCGTGGACTTGAACTTGCCATTGGACTGA

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FIGURE 5542

GGTTCAGCTGCCCCGCACGCCCCGACCTTCCATCGTAGGCCGGACC**ATGGGA**ACCCCAAAGCCACGGATCCTGCC
CTGGCTGGTGTTCGCAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGCACGCGCTTCCG
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTTCGGAATCTTCCAGGCCTGGGCCGAGGC
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAAATCTACGAGTTTGT
GAACTCAGGAGTTGGGGACTTTTCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC
CCAGGAAGACATTCTGGATGAGTTACTGGGTAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT
GGCTGTAGCCCCCTGAGCCCTGCCCTCAGCCCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCT
GGGGCCCTCTGAGAACCCACTGAAGCGGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTTCAGGTGACAGCCTTCTA
CCGGGGCCCGCCAAGTCTTCCAGCAGACCATCTCCTGCCCAGAGGGCCTGCGGCTGGTGGGGTCCGAAGTGGGAGA
CAGGACGCTGCCTGGATGGCCAGTCACACTGCCAGACCCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA
CGTGAGGCATGTGCTGAGCTGCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGGCCAGCG
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA
GGTCCCCAAGGACAAGGAAGGAGGCGTGTTGACCTGGGGCCCTTCATTGTAGATCTGATTACCTTCACGGAAGG
AAGCGGACGCTCACCACGCTATGCCCTCTGGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA
GAGGCTCGTGATGGTCAAGGTTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCGGGTAGGGGGTGCCTC
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGC
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCAGGGCCCTGGGGAGAGCT**TGAG**CCCTCGCTCCTCATGGTGT
GCCTCCAACCCCCCTGTTCCCCACCACCTCAACCAATAAACTGGTTCCTGCTATGAA

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FIGURE 5543

MGTPKPRILPWLVSQDLGQLEGVAWVNKSRTFRIPWKHGLRQDAQQEDFGIFQAWAEATGAYVPGRDKPDLP
WKRNFERSALNRKEGLRLAEDRSKDPHDPHKIYEFVNSGVGDFSQPDTSPTDNGGGSTSDTQEDILDELLGNMVLA
PLPDPGPPSLAVAPEPCPQPLRSPSLDNPTFPNLPSENPLKRLLVPGEEWEFEVTA FYRGRQVFQQTISCPEG
LRLVGSEVGDRITLPGWPTLPDPGMSLTDRGVMSYVRHVLSCGGGLALWRAGQWLWAQRLGHCHTYWAVSEELL
PNSGHGPDGEVPKDKEGGVFDLGPFIIVDLITFTEGSGRSPRYALWFCVGESWPQDQPWTKRLVMVKVVP TCLRAL
VEMARVGGASSLENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFQGPGES

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FIGURE 5544A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCACCCAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT
GCCAGAGGGGATGCTGAGGGAGATAGTGTGGGGCCCTTGAGGTCTTCATGCTCTATCCTCTACTTCCATCCTTTCT
CCCGGGACCTCCACTCCAACTCTCCCCCTGGACCCCAAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA
AGACAGAGGAGTCGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTGCCTTTA
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCCAATGATAAAGATGGCTCTCGGT
GTCATGGCCTTCGATGGCGGCGCTGCCGGAGTCCACGGTCAGAGCCCCGTTCACAGGAATCAGGGGGCACTGACA
CGGCTACTGTGTGGACATGGCCACGGACAGCTTCTCGCAGGGCTGGTGAGTGTCTGGATCCCCGGATACCT
GGGTTCACAGCCGCTGGACCTGCGGCTGGCGAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG
GGGACAGAGATCCATCCCTCTGCCTGTGCCAGCCTGCTGCCCCGTCTCAGGGCTGGAGGACGGGCAAAACGG
TTTCTCCACAGTCGAATCCTCTAGGCCCACCTGTGCCCGTCACCTCACCTTGCGCACGGGAGACGGGGGCCCTG
CCCCACCCCTGCCCCCTCTCTGCATCCTCTCCCTTCCCCCTTCTCCCTCATCTTCTCCCTTCCCCCTCCC
CACCCACCGCCCCCTGCACCCCAAGCCACCTGCCCCCGATTGATATCTATGACCCCTTCCACCCACCG
ACGAGGCCTACTCTCCACCGCTGCTCCGGAGCAAAAGTACGACCCCTTTGAGCCCAACGGCTCCAACCCAGCT
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAGGAAGAGGAGGAGG
AGGAGGAGGAAGGCCTGTCCAGAGCATCAGCCGCATCTCGGAGACCCCTGGCGGGCATCTACGATGACAACAGCC
TGAGCCAGGACTTCCCAGGTGACGAGAGCCCCCGCCGACGCGCAGCCACACAGCCGACTCCCGCCCCCTGGAA
CGCCGCCCCAGGTGGACTCCACCGGGCTGATGGAGCCATGCGCCGGCGGGTCTTCGTGGTGGGGACCGAGGCAG
AGGCTTGTGCGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGCTGGTGAGCCGCCCTCCCGCCGCCCTGTGC
CGCCCGCGGACTCGGAGATCGAGGAAGGGGAGATCGTCCAGCCGAGGAGGAGCCAGGCTGGCGCTGTCCCTCT
TCCGCCCCGGCGGCCGGGCCGCCCGCCTACACCGCCCGCCTCGGCCACCCCAAGGCCAGCCCTTCTCTCAGC
CTCCCGCTCCGCGGGCCCCGAGGGGGACGACTTCTTGTCCCTGCATGCGGAGTCGGACGGCGAGGGCGCCCTGC
AGGTGGACCTAGGGGAGCCGGCTCCCGCGCCGCCCGCCGACTCGCGCTGGGGCGGGCTGGACCTGCGCCGCA
AGATCCTGACCCAACGGCGGGAGCGCTACCGCCAGCGCTCGCCCTCCCGGGCGCCCGCGCCCGCCCGCCGCG
CTGCTGGTCCGCCACGCGCAAGAAGTCCAGGCGGGAACGCAAGCGCAGCGGCGAGGCCAAGGAGGCCGCTCGT
CCTCGTCGGGCACCCAGCCAGCGCCGCCCGCCCGCCTCGCCCTGGGACTCCAAGAAGCACCCTCGCGGGACC
GCCGCTCGCGCAGCACCAGCCGCCCGCGGGGCGAGCCGAGGTGCGGCTCCCGGGAGAAGCGGCGACGGCGGC
GGCGCTCCGCTCCCGCCCCCGGCCACTTCTCATCTGTCGTCCTCGAGGCGGAGCGGCACCGCGGGAACACC
GGGACGGTGGCGGCAGCAAGAAGAAGAAGCGGTGCGGCTCCCGGGGTGAGAAGCGGTCTGGGGATGGCAGCG
AGAAGGCCCCGGCGCCCGCCCGCCCGCCTCTGGCTCCACCTCGTGTGGTGACCGCGACAGCCGCCCGGGGGG
CCGTGCCACCTCCATCCAGGACCTCACGGACCAGACCTCTTCGCCATCAAGCGGACCATCACGGTGGGCCGGC
TTGACAAGTCCGACCCCGAGGACCTCTCCTGCTCCGGCCTCTCACCTAAGCGGGAGGTCTGTACGACTCCG
AGGGACTGAGCGGCGAGGAGCGGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCCGCTCGGGGGCCGCTCTCTCT
CCTCCTCTTCCCGGAGAAGGGTCTCGTCGGAAGGCGCTGGACGGGGGTGACCGGGATCGGGACAGGGACAGAG
ATAGGGACAGGGACAGGTCAATCAAGAAGGCCCGGCCCCCAAGGAGTCGGCGCCTTCTCAGGGCCCCGCCAA
AGCCACAGTCAGCAGCGGCTCAGGCTCTTCATCCTCGTCTCTCTCTTCTTCCCGGAAGGTGAAGCTGCAGT
CCAAGGTGGCGGTGCTGATCCGCGAGGGTGTGACGAGCACCACCCCGGCCAAGGATGCCGCGTCAGCCGGCCTGG
GCTCCATTGGCGTCAAATTCAGCCGTGACCGCGAGAGTCGCTCCCCCTTCTCAAACCTGACGAGCGGGCCCCCA
CTGAGATGGCCAAAGCAGCTCCGGGCGAGCACAAGGCCAAAAGACCAAGGTCAAGGCCAAGGCAGGGGCCAAGA
AAACCAAGGGGACCAAGGGAAAGACCAAGCCATCCAAGACCAGGAAAAGGTCCGCACTGGAGGTGGCAGCGGGG
GCAGTGGTGGCCAGGTGTCGCTGAAGAAGTCCAAGGCGGATAGCTGCAGCCAGGCGGACGGCACCAAGGGGGCGG
AGGAGACTTCTTGGTCCGGGGAGGAGCGGGCAGCCAAGGTTCTTAGCACCCCGCCCCCAAGGCAGCCCCACCAC
CCCCTGCCCTCACTCCGACTCGCAGACCGTGGACAGCAGCTGCAAGACACCTGAGGTCTCTTCTGCCCCGAGG
AGGCCACTGAGGAGGCTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG
AAGAGGAGGAGGAGCAGCAGCCTGCTACCACCAGGCCACCAGCACTGCTGCAGCCGCCCAAGCACTGCCCCCA
GCGCGGGGTCCACAGCCGGTGACTCGGGGGCGGAGGACGGGCCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC
CCCCGCCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACCAGCGGCGTCTGGCCTTGACTGCACTTC
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCAGGAGCTGATCCAGGCCACCAACCAGATCC

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FIGURE 5544B

TCAGCCACAGAAAGCCACCCTCAAGTCTGGGGATGACCCCAGCTCCTGTGCCCACCTCITTGGGTCTGCCCCCTG
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTGACCCCCCCCCACCCCCACCGGGC
TGGCTGCCACGTCTGACAAGAGAGAGGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAAGTGGGGAAATCAACC
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGCTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG
GGGACCCCCCAGGGCCCCCACGGCCGCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGGCCTGCCCCCTGC
CCCCCTCTCTTGAGAGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC
CCTGCCCCGTGTCCACCTCCCTTGCCCCAAGCCTGTCCCCAGTGCCCCTCCCTTCTGTTTGTGCCCCCTCTCCCC
AATTTCAATAAAGATTTTCATGAAACATT

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FIGURE 5545

MSILYFHPFSDRLHSLKLSPLDPQVTMEEEDESRGKTEESGEDRGDGPDPDRDPTLSPSAFILRAIQQAVGSSSLQGD
LPNDKDGSRCHGLRWRRRCRSPRSEPRSQESGGTDATVLDMATDSFLAGLVSVLDPPDTWVPSRLDLRPGESDM
LELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKTIVSPQSNSSRPTCARHLTLGTGDGGFAPPPAPSSASSSPSPS
PSSSSPSPPPPPPPPPAPPAPPAPRFDIYDPFHPTDEAYSPPPAPEQKYDPFEPTGSNPSSSAGTPSPEEEEEEEE
EEEEEEEEEEEEEGLSQSISETLAGIYDDNSLSQDFPGDESPPDAQPTQPTPAPGTPPQVDSTRADGAMRR
RVFVVGTEAEACREGKVSVEVVTAGGAALPPPLLPPGDSEIEEGEIVQPEEEFRLALSFLFRPGGRAARPTPAASA
TPTAQPLPQPPAPRAPEGDDFLSLHAESDGEALQVDLGEPAAPAPPAADSRWGGLDLRRKILTQRRERYRQRSPS
PAPAPAPAAAAGPPTRKKSRRERKRSGEAKEAASSSSSGTQAPPAPASPWDKSKHRSRDRKPGSHASSSARRRSR
SRSRSRSTRRRSRSTDRRRGGSRRRSREKRRRRRRRSASPPPATSSSSSRERHRGKHRDGGGSKKKKKRSRSR
GEKRSBGSEKAPAPAPPPSGSTSCGDRDSRRRGAVPPSIQDLTDHDLFAIKRTITVGRLDKSDPRGPPSPAPASS
PKREVLVDSEGLSGEERGGKSSQKDRRRSGAASSSSSSREKGSRRKALDGGDRDRDRDRDRDRSSKKARPPKE
SAPSSGPPPKPPVSSSGSGSSSSSSSSCSSRKVKLQSKVAVLIREGVSSSTTPAKDAASAGLGSIGVKFSRDRESRSP
FLKPDERAPTEMAKAAPGSTKPKKTKVKAKAGAKKTKGTKGKTKPSKTRKKVRSGGGSGGSGGQVSLKKSKADSC
SQAAGTKGAEETSWSGEERAAPVPSTPPPKAAPPPPALTPDSQTVDSCKTPEVSFLPEEATEEAGVRGGAEEEE
EEEEEEEEEEEEEEQQPATTATSTAAAAPSTAPSAGSTAGDSGAEDGPASRVSQLPTLPPPMWNLPAVDCTT
SGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKPPSSSLGMPAPVPTSLGLPPGPSSYLLPGSLPLGGC
GSTPPTPTGLAATSDKREGSSSSSEGRGDTDKYLKKLHTQERAVEEVKLAIKPYYQKKDITKEEYKDILRKAVHKI
CHSKSGEINPVKVSNLVRAYVQRYRYFRKHGRKPGDPPGPPRPPKEPGPPDKGPGPLPLPPL

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FIGURE 5546

GGCACGAGGAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAAT
GGTGCGATCTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCCATTTTCAGCCTCCCGAGTAGCT
GGGATTACAGGATGACGCGGCATGGCAAGAACTGCACCGCAGGGGCGGTCTACACCTACCACGAGAAGAAGAAGG
ACACAGCGGCCTCGGGCTATGGGACCCAGAACATTGCACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTT
GTCTCTCCCTGCAGCCTTGCCACGATCCTGTTGTACCCCAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGG
AGTACATTCTGCACCAGAAGAAGGAGATTGCCCAGGAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCG
AGGAGCAGAAGGAGCTTCAGCGGGCGGCCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCG
TGAGCCGGCCCCCTCAACCCTTTCACAGCCAAGGCCCTCTCGGGCACCAGCCCAGATGATGTCCAACCTGGGCCCCA
GTGTGGGTCTTCCAAGTAAGGACAAGGACAAAGTGCTGCCCAGCTTCTGGATCCCGTCGCTGACGCCCGAAGCCA
AGGCCACCAAGCTGGAGAAGCCGTCCCGCACGGTGACCTGCCCCATGTCAGGGAAGCCCTGCGCATGTGCGGACC
TGACGCCCCGTGCACTTCACACCGCTAGACAGCTCCGTGGACCGCGTGCGGGCTCATCACCCGCAGCGAGCGCTACG
TGTGTCCGTGACCCGCGACAGCCTGAGCAACGCCACCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTCA
CCCTCGAATGCGTGAGAGAAGCTGATTGCGGAAGGACATGGTGGACCCTGTGACTGGAGACAACTCACAGACCGCG
ACATCATCGTGCTGCAGCGGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGC
CGGTGATGCAGGCCTGAGTGTGTGCGGGAGACCAATAAACCGGCTTGGGTGCGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5547

MTRHGKNCTAGAVYTYHEKKKDTAASGYGTQNIRLSRDAVKDFDCCCLSLQFCHDPVVTPDGYLYEREAILLEYIL
HQQKEIARQMKAYEKQRGTRREEQKELQRAASQDHVRGFLEKESAIVSRPLNPFTAKALSGTSPDDVQPGPSVGP
PSKDKDKVLPSFWIPSLTPEAKATKLEKPSRTVTCPMMSGKPLRMSDLTPVHFTPLDSSVDRVGLITRSERYVCAV
TRDSL SNATPCAVLRPSGAVVTLECVKELIRKDMVDPVTGDKLTDRDIIVLQRGGTGFAGSGVKLQAEKSRPVMQ
A

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FIGURE 5548

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACTAAGGA
GGCTTCCAGAAGATTTTGATTAAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCTTTCCAGTTTTGTCAAGAATTCCCTGAGCGGCAG
ACACCCTCAAAGTAAAAAACGGGAACACAGAGAAGGAAAAAGAAGAACACAAGCGTTTTGAGAAACAAACAGG
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGGTGGGGCTGGATGTTCTTGAGTCAAGGAGCAGCAGC
CTCCACAGGATGTGAGAGAGGAACCTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGCAGGCAGGA
AGCGGAGCGAGGCTGAAGGGAACCTCGTCCTCTCAGCATGGGGGTCCCGCGGCCTCAGCCCTGGGCGCTGGGGCT
CCTGCTCTTTCTCCTTCCTGGGAGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC
CTCGCCTGCCCCGGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCGCAGCAGTACCTGAGCTACAATAG
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACCAGGTGTCCTGGTATTGGGAGAAAGAGAC
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGGAAAAGGTCCCTACACTCT
GCAGGGCCTGCTGGGCTGTGAACTGGGCCCTGACAACACCTCGGTGCCCACCGCCAAGTTCGCCCTGAACGGCGA
GGAGTTCATGAATTTCGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCCAGGCCCCTGGCTATCAGTCAGCG
GTGGCAGCAGCAGGACAAGGCGGCCAACAAGGAGCTCACCTTCCTGCTATTCTCCTGCCCCGACCGCCTGCGGGA
GCACCTGGAGAGGGGCGCGGAAACCTGGAGTGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAG
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCCTCCGGAGCTGCAACTTCGGTTCCTGCGGAA
TGGGCTGGCCGCTGGCACCGGCCAGGGTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCCCTCGTCGTCACT
AACAGTCAAAAAGTGGCGATGAGCACCCTACTGCTGCATTGTGCAGCACGCGGGGCTGGCGCAGCCCCCTCAGGGT
GGAGCTGGAATCTCCAGCCAAGTCCCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGC
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCCTTGGATCTCCCTTCGTGGAGA
CGACACCGGGGTCTCTCTGCCACCCCAGGGGAGGCCAGGATGCTGATTGAAAGGATGTAAATGTGATTCCAGC
CACCGCCTGACCATCCGCCATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCCCTTTCATGCTGTGAGACCTCCT
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGTTCTGGGCCTAGTTGTCTCCTCCTCTGGAGCCCCGTCTGTGG
TCTGCCTCAGTTTCCCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGCC

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FIGURE 5549

TTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTCAGACTGAGCGTGCCTACCAAAAGCAGCCGACCATCT
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCTTCACTGGTAATGTGT
CCATTGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTCATCCGCCGAGACT
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT
TCAGGGACGTCCAGATCGGTGACATCGTACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCCTTCAACG
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCCCGCTCCC
CACAATGAAATAAAGTTATTTTCTCATTCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5550

CTTTTCCAAGCGGCTGCCGAAGATGGCGGAGGTGCAGGTCTTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCGG
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCGGGAAGGTGGTGGTCGTACGCTGTGAAGGCATCAACAT
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCTCCGCAAGCGGATGAACACCAACCCTTCCCG
AGGCCCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGAAAAAGCGGAT
GGTGGTTCTTGCTGCCCTCAAGGTGCTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCA
CGAGGTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC
AGAGGTCCTCAAGACCCACGGACTCCTGGTCTTGAGCCCCAATAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCT
TCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA
TAGGAAGCTGGGAGCAAGGAAAGGGTCTTAGTCACTGCCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC
AGGTGTCAATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTTCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC
ACAACCAAGGGGTTACAGGCATCGCCCATGCTCCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAGA
AAAAAAAAAAAAAAAAAA

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FIGURE 5551

MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLKYLAFLRKRMNTNPSRGPYHFRA
PSRIFWRTVRGMLPHKTKRGQAALDRLKVFDGIPPPYDKKKRMVVPAAALKVVRLKPTRKFAYLGRLAHEVGWKYQ
AVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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FIGURE 5552

CGCAGTCTTCGCGGAAAGCGTTCGGGGTAGGCGATGGCTGCGACGCGTGACAGGGCCCCGCGCCGCGAGATCTTC
ACCTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC
TTGGGGCCACTATGTGAATGGGAAGTGTTAAAGCCTGAACACAGAAATTCAGTGCCCTGCCAGGATCCCATCACA
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTGAAGTGGCGGGCTGTTT
GAGAGGTTTCGAGACGGGGACGTCCAGCTGGCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG
AGGAGGCACTGGCAGGCTGGGAGCCCCATGGGAGTAATTGGCCTCATCTGCCACCCACATTCTCTTCTTTGAGA
TGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCCGGCTCCCCGGCGC
CCCTCCTCTGGCCAGCTGGCGGGGGAGCTGGGCCCCCTTCCCGGGAATCCTGAATGTCTCAGTGGCCCTGCGT
CCCTGGTGGCCATCTGGCCTCCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGGAGGAAGGGCGTG
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCTGGCGCTGGGGACGGAGTCGCTGCTGCTGTA
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGTGTCTGTGGACGCCGCTGGTCCGACCGCGGCCCGGGTGGCC
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCCCGGGGGCTGCCGCATGTGACCTGGTCCAGCGCTTTG
TGGCTGAGGCCCCAGAGCCAGGTGCACAGGTGTTCCAGGCTGGTGTGTGCTTCGGAACGCCCCATTCTATCCCC
CAACCTTGGTCTCCAACCTGCCCCAGCCTCCCCATGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTCTGGCCT
CCCCCTTCCGCACAGCCAAGGAGGCACTGTTGGTGGCCAACGGGACGCCCCGCGGGGGCAGCGCCAGTGTGTGGA
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCACGGCC
TCAGAGACCCTTCGTGCCCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTGGCACGGGGGCCAGACGGGCTGT
ATGAGTATCTGCGGCCCTCAGGGACCCCTGCCCCGCTGTCTGCTCTCCAAGAACCTGAACTATGACACCTTTG
GCCTCGCTGTTCCCTCAACCTGCCGGCTGGGCTGAAATAGGGCCCAGCCCAGCACCCCCCTATGGGCTCTTCG
TTGGGGGCGGTTTCCAGGCTCCTGGGGCCCCGAAGCTCCAGGCCATCCGGGATTCGTCTGGCAACCTCCATGGCT
ACGTGGCTGAGGGTGGAGCCAAGGACATCCAGGTGCTGTGGAGGCCGCTCACCAGGCTTTCCCTGGCTGGGCGG
GCCAGTCCCCAGGAGCCCGGGCAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCCTGG
CCTCGAGGCTGGAGAGGCAAGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC
GGGCGTGGGGGGCCCCGGGTGCAGGCCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCCGGACGAGTGGCCCCCTGCTTGCTTCGTGTCCCTGCTGG
CTCCCGCCCTGGCCTACGGCAACACTGTGGTATGGTGCCAGTGCGGCCCTGTCTCTGCTGGCCCTGGAGGTCT
GCCAGGACATGGCCACCGTGTTCAGCAGGCCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGCT
GCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTTCGGATCAGCCCAGGGTTCCAGTTTGTGAGTGGG
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCCGGGGCCTGGGACCAGGAGGCCGAGGGG
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCATGAGGGGACTGATGCTGAGCG
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTGG
TTCTGTGTCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAGAAAGGGTGTAGCAACTTCT
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTTTGGAGACAACGTCTGGCTCTGTACCCAGGCTGGAGCG
CAGTGGCACAAATCTCGGCCACTGCAGCCTCGACCTCTGGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT
AGCTGGGGCCACAGACATGCACCACCACCTGGCTCGAGGCCATTTTAGTTCTGAGGTGAGCAGCTCAGGAGC
CGGCTCCAGCACGGTGTGTGTTTGTGAAACAGAGAAAGGGGACCCCCGAGGACCCAGACAGGGCCTTAGGACT
CTCATATCTTCTTGTCTTCTCCATCTGGTGGCTCTTGTCTCTGTTTTCTCTACCTTTTCATGGCCCCAGAATC
CATATGCAGTAAAGGAACCTCTCTGGAATAAAATTAAAGTCCTCCT

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FIGURE 5553

MGVIGLILPPTFSFLEMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILNVLSGPASLVPILASQ
PGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTDTADVDSAVEGVVDAAWSDRGPGGLRLLIQESV
WDEAMRRLQERMGRRLRSGRGLDGAVDMGARGAAACDLVQRFVREAQSQGAQVFQAGDVPSEPFYPPTLVSNLPP
ASPCAQVEVPWPVVVASPFRTAKEALLVANGTPRGGSASVWSERLGQALELGYGLQVGTVWINAHGLRDPSPVPTG
GCKESGCSWHGGPDGLYEYLRPSGTPARLSCLSKNLNYDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPG
ARSSRPIRDSSGNLHGYVAEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALERRKSTLASRLERQGA
ELKAAEAEVELSARRLRAWGARVQAQGHTLQVAGLRGPVLRRLREPLGVLA VVCPDEWPLLA FVSLLAPALAYGNT
VVMVPSAACPLLALVQCQDMATVFPAGLANVVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPV
WASRGCPRAWDQEAEGAGPELGRLRVARTKALWLPMGD

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FIGURE 5554

ACAGTTCGGCACGTAGGACGGAGGGTAGTGCGTCTAGAGACACATATTCCCCACGGATTTGACGATGGTGTTCGG
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG
GCCAGAGCAGGCACTGGGGTTCGGATCCTGGGCAAAGTTTCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT
TTCCCAGGGCCATGGCGAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTTCGG
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC
AAATCCAGCCTCAGCCTGGTTTCTGCATAAAAGACCAACTCCTCGGAAGGGAAGGTTTTTCATCAACATCTGCCACT
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATGTACCGCCTACGACG
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTTCTTGCGGGAGCTCGTGATCACCATCGCCA
GGGAGGGCCTTGAGGACAAATACAACCTTGCAGCTGAATCCGGAATGGCGCATGATGAAGAACCGGCCATTTCATGG
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCCG
CCCCCGGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCCGACCTCCTCTTGG
CCGAAGTTGACCTCCCCAAACTGGATGGAGCCCTGGGGCTGTGCTGGAGATCGGGGAGAACCGCCTGGTGATGG
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT
TCCACCGGAAGAGAAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGCTGCCTTCTTGATCAGGGTGTCTCCTTG
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAGATTTTTGCCTTTAAAAAAA
AAAAAAA

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FIGURE 5555

MANPKLLGMGLSEAEAIGADSARFEELLQASKELQQAQTTREESTQIQPQPGFCIKTNSSEGKVFINICHSPSI
PPPADVTEEEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQGCTAYDVAVNSDFYRRMQNSDFLRELVITTIAREGL
EDKYNLQLNPEWRMMKNRPFMGSIQQNIRSEQRPRIQELGDLYTPAPGRAESGPEKPHNLWLEAPDLLLAEVD
LPKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKAAFHRKRKQLMVAMPLLPVPS

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FIGURE 5557

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEGAGGDGGPDAGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGK
MYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKL
GPTGPQASELFQFWSGGSGPPWNVPDVKPFSTPFTLSLTPPSTDLPGYEPPQALSPLPPPTPSPPAWQARGLT
ARLQLVEFSASFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVQVRIYDKFPEKKGGLRELYDRGPPHAFFLV
KFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKVCSTFGKQVVEKVETERAQLEDGRFVYRLL
RSPMCEYLVNFLHKLRLPERYMMNSVLENFTILQVVTNRDTQELLCTAYVFEVSTSERGAQHHIYRLVRD

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FIGURE 5558

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCACTCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTCAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTTCG
GGCAGTCCTTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAAGTCAAGCCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCGCTCCTTCACACGCGCCCGCGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGCAGTGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGACACCGTGTCCCTGCACGA
GATCGACGTCATCAACTCTCGCACCCAGGGCTTCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCCTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGGAACGCAAGGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTCACTCTTCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTTCAACGAACCTCAAAGGCGAGACCATGGACACCTCCTGAGTGGATGTCATCCCCGAC
CCCACCTGTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

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FIGURE 5559

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEEIEGEVVEIQIDRP
ATGTGSKVGKLTCLKTTEMETIYDLGTKMIESLTKDKVQAGDVITIDKATGKISKLGRSFTTRARDYDAMGSQTKFV
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC
EEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESIRSTQYMKEYQDAF
LFNELKGETMDTS

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FIGURE 5560

CGCTTCGGGGCAGGGGTGCGGTCTTGCAATAGGAAGCCGAGCGTCTTGCAAGCTTCCCGTCGGGCACCAGCTACT
CGGCCCCGCACCCTACCTGGTGCAATCCCTAGACACCTCCGGGGTCCCTACCTGGAGATCCCCGGAGCCCCCTT
CCTGCGCCAGCCATGCCTTTAAACCGCACTTTGTCCATGTCTCACTGCCAGGACTGGAGGACTGGGAGGATGAA
TTTCGACCTGGAGAACGCAGTGCTCTTCGAAGTGGCCTGGGAGGTGGCTAACAAGGTGGGTGGCATCTACACGGTG
CTGCAGACGAAGGCGAAGGTGACAGGGGACGAATGGGGCGACAACACTACTTCTGGTGGGGCCGTACACGGAGCAG
GGCGTGAGGACCCAGGTGGAAGTGTGGAGGCCCCACCCCGGCCCTGAAGAGGACACTGGATTCCATGAACAGC
AAGGGCTGCAAGGTGTATTTTCGGGCGCTGGCTGATCGAGGGAGGCCCTCTGGTGGTGCTCCTGGACGTGGGTGCC
TCAGCTTGGGGCCCTGGAGCGCTGGAAGGGAGAGCTCTGGGATACCTGCAACATCGGAGTGCCGTGGTACGACCGC
GAGGCCAACGACGCTGTCTCTTTGGCTTTCTGACCACCTGGTTCTGGGTGAGTTCTGGCACAGAGTGAGGAG
AAGCCACATGTGGTTGCTCACTTCCATGAGTGGTTGGCAGGCGTTGGACTCTGCCTGTGTCTGTGCCGGCGACTG
CCTGTAGCAACCATCTTCACCACCCATGCCACGCTGTGGGGCGCTACCTGTGTGCCGGTGCCGTGGACTTCTAC
AACAACCTGGAGAAGTTCACGTTGGACAAGGAAGCAGGGGAGAGGCAGATCTACCACCGATACTGCATGGAAAGG
GCGGCAGCCCACTGCGCTCACGTCTTCACTACTGTGTCCCAGATCACCGCCATCGAGGCACAGCACTTGCTCAAG
AGGAAACCAGATATTGTGACCCCCAATGGGCTGAATGTGAAGAAGTTTTCTGCCATGCATGAGTTCCAGAACCCTC
CATGCTCAGAGCAAGGCTCGAATCCAGGAGTTTGTGCGGGGCCATTTTTATGGGCATCTGGACTTCAACTTGGAC
AAGACCTTATACTTCTTTATCGCCGGCGCTATGAGTTCTCCAACAAGGGTGCTGACGTCTTCTCTGGAGGCATTG
GCTCGGCTCAACTATCTGCTCAGAGTGAACGGCAGCGAGCAGACAGTGGTTGCCCTTCTTCATCATGCCAGCGCGG
ACCAACAATTTCAACGTGGAAACCCCTCAAAGGCCAAGCTGTGCGCAAACAGCTTTGGGACACGGCCAACACGGTG
AAGGAAAAGTTCGGGAGGAAGCTTTATGAATCCTTACTGGTTGGGAGCCTTCCCGACATGAACAAGATGCTGGAT
AAGGAAGACTTCACTATGATGAAGAGAGCCATCTTTGCAACGCAGCGGCAGTCTTCCCCCTGTGTGCACCCAC
AATATGCTGGATGACTCCTCAGACCCCATCCTGACCACCATCCGCCGAATCGGCCTCTTCAATAGCAGTGCCGAC
AGGGTGAAGGTGATTTTTCCACCCGGAGTTCTCTCTCCACAAGCCCCCTGCTCCCTGTGGACTATGAGGAGTTT
GTCCGTGGCTGTACACTTGGAGTCTTCCCCCTCTACTATGAGCCTTGGGGCTACACACCGGCTGAGTGCACGGTT
ATGGGAATCCCCAGTATCTCCACCAATCTCTCCGGCTTCGGCTGCTTCATGGAGGAACACATCGCAGACCCCTCA
GCTTACGGTATCTACATTCTTGACCGCGGTTCCGCAGCCTGGATGATTCTGCTCGCAGCTCACCTCCTTCTCTC
TACAGTTTCTGTACAGCAGAGCCGGCGGCAGCGTATCATCCAGCGGAACCGCACGGAGCGCCTCTCCGACCTTCTG
GACTGGAAATACCTAGGCCGGTACTATATGTCTGCGCGCCACATGGCGCTGTCCAAGGCCCTTCCAGAGCACTTC
ACCTACGAGCCCAACGAGGCGGATGCAGGCCCAGGGGTACCGCTACCCACGGCCAGCCTCGGTGCCACCGTCGCC
CTCGCTGTACGACACTCCAGCCCGCACCAGAGTGAGGACGAGGAGGATCCCCGGAACGGGCCGCTGGAGGAAGA
CGGCGAGCGCTACGATGAGGACGAGGAGGCCGCAAGGACCGGCGCAACATCCGTGCACCAGAGTGGCCGCGCCG
AGCGTCTGCACCTCCTCCACCAGCGGCAGCAAGCGCAACTCTGTGGACACGGCCACCTCCAGCTCACTCAGCAC
CCCGAGCGAGCCCCCTCAGCCCCACCAGTCCCTGGGCGAGGAGCGTAACCTAAGTCCGCCCCACCACACTCCCCGC
CTGTCTGCTCTCTGCTCCAGAGAGGATGCAGAGGGGTGCTGCTCCTAAACCCCCGCTCCAGATCTGCACTG
GGTGTGGCCCCGAGTGCCCCCACCAGTCCGCCAAACACTCCACCCCTCCAGCTCCAGTTTCCAAGTTCTGCTG
ACTCCAGAATCCACAAAGCCGTGCCTTTCTCTGGCTCCAGAATATGCATAATCAGCGCCCTGGAGTCCCTGGGC
CTGGACCGCTTCCAGAGGCCAGGAATCTGCCATTACTCTGCGGTGGTGCCAGAGGTTTTAGGAAACCTGGCATG
GTGCTTTACAGTCTGGGGCTTTTAGAGCCCCCGTGTGGCTTACAAATTCTACAGCATACAGAGCAGGCCACGCT
CAGGCCCGGCATGCGGGCCACCAAGTTCTGGAAACCAGTGGTGTCCCTGCGAATGGGGCGATCAAGTCCAGAGC
CGGGGCACTTTCAGAGTTTGAAGGTAAGTGAAGACAGATGGTCTCCATTTCAACTCCAGAAGTGGGGCTCTGGG
AGGGATGTTCTAGCCCTCCCTGGCATGTCTAGAGCCAGGCTCTGCCTGGAGGATCCCTCCATCCGGCTCCTGTCT
CCCCTACACTTTGGCCAAGCAAGAGGTGGTAGAACCACTTGGCTGCTCATTCTTCTGAGGACACACAGTCTCA
GTCCAGATGCCTTCTGTCTTTCTGGCCCTTTCTGGACCAGATCCTACTCTTCTTCTAAATCTGAGATCTCCC
TCCAGGGAATCCGCTGCAGAGGACAGAGCTGGCTGTCTTCCCCACCCCTAACCTGGCTTATTCCCAACTGCTC
TGCCCACTGTGAAACCACTAGGTTCTAGGTCTGGCTTCTAGATCTGGAACCTTACCACGTTACTGCATACTGAT
CCCTTTCCCATGATCCAGAACTGAGGTCACTGGGTCTAGAACCCCCACATTTACCTCGAGGCTCTTCCATCCCC
AAACTGTGCCCTGCCTTCAGCTTTGGTGAAGGGAGGGCCCTCATGTGTGCTGTGCTGTGTCTGCACCGCTTGG
TTTGCAGTTGAGAGGGGAGGGCAGGAGGGGTGTGATTGGAGTGTGTCCGGAGATGAGATGAAAAAATACATCTA
TATTTAAG

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FIGURE 5561

MPLNRTLMSSSLPGLEDWEDEFDLENVLF EVAWEVANKVGGIYTVLQTKAKVTGDEWGDNYFLVGPYTEQGVRT
QVELLEAPTPALKRTLDSMNSKGCKVYFGRWLIIEGGPLVVLLDVGASAWALERWKGELWDTCNIGVPWYDREAND
AVLFGFLT TWFLG EFLAQSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYNNLE
NFNVDKEAGERQIYHRYCMERAAAHCAHVFTTVSQITAIEAQHLLKRKPDIVTPNGLNVKKFSAMHEFQNLHAQS
KARIQEFVRGHFYGHLDNFNDKTLYFFIAGRYEFSNKGADVLEALARLNYLLRVNGSEQTVVAFFIMPARTNNF
NVETLKGQAVRKQLWDTANTVKEKFGRKLYESLLVGSLPDMNKMLDKEDFTMMKRAIFATQRQSFPVCTHNMLD
DSSDPILTTIRRIGLFNSSADRVKVIHFPEFLSSTSPLLPVDYEEFVRGCHLGVFPSYEPWGYTPAECTVMGIP
SISTNLSGFGCFMEEHIADPSAYGIYILDRRFRSLDDSCSQLTSFLYSFCQQSRRQRIIQNRNTERLSDLLDWKY
LGRYYMSARHMALSKAFPEHFTYEPNEADAGPGVPLPTASLGATVALAVTTLQPAPE

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FIGURE 5562

GTCCCGCGGGTCTGTCTCTTGCTTCAACAGTGTGTTGGACGGAAACAGATCCGGGGACTCTCTTCCAGCCTCCGACC
GCCCTCCGATTTCTCTCCGCTTGCAACCTCCGGGACCATCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAG
CACCGTTTTGTGGTTAGCTCCTTCTTGCCAACCAACCAATGAGCTCCCAGATTTCGTCAGAATTATTCCACCGACG
TGGAGGCAGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATT
TCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCT
ACGAGCGTCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAG
ATGAGTGGGGTAAAACCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGG
ATCTTCATGCCCTGGGTTCTGCCCCGACGGACCCCCATCTCTGTGACTTCTGGAGACTCACTTCCTAGATGAGG
AAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCCGGAGGCTGGGCTGG
GCGAGTATCTCTTCGAAAGGCTCACTCTCAAGCACGACTAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCC
CTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTAACTATCCTAACAAG
CCTTGACCAAATGGAAATAAAGCTTTTTGATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5563

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEEKREGYERLLKMQNQRGG
RALFQDIKKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSARTDPHLCDFLETHFLDEEVKLIKMGDHLT
NLHRLGGPEAGLGEYLFERLTLKHD

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FIGURE 5564

GCTGCGGCCGCCCCGCGCGGACCCGGCGAGAGGCGGCGGGAGCGGCGGTGATGGACGGGTCCGGGGAGCAGCC
CAGAGGCGGGGGGGCCCACCAGCTCTGAGCAGATCATGAAGACAGGGGCCCTTTTGCTTCAGGGTTTCATCCAGGA
TCGAGCAGGGCGAATGGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTGCCTCAGGATGCGTCCACCAAGAA
GCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAACCTGGACAGTAACATGGAGCTGCAGAGGATGATTGCCGCCGT
GGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTTTCTGACGGCAACTTCAACTGGGG
CCGGGTGTGCGCCCTTTTCTACTTTGCCAGCAAACCTGGTGCTCAAGGCCCTGTGCACCAAGGTGCCGGAACATGAT
CAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGTTG
GGTGAGACTCCTCAAGCCTCCTCACCCCCACCACGCGCCCTCACCACCGCCCCTGCCCCACCGTCCCTGCCCC
CGCCACTCCTCTGGGACCCTGGGCCTTCTGGAGCAGGTCACAGTGGTGCCCTCTCCCCATCTTCAGATCATCAGA
TGTGGTCTATAATGCGTTTTCTTTACGTGTCTTGATCAATCCCCGATTCATCTACCCTGCTGACCTCCAGTGACC
CCTGACCTCACTGTGACCTTGACTTGATTAGTGCCTTCTGCCCTCCCTGGAGCCTCCACTGCCTCTGGAATTGCT
CAAGTTCATTGATGACCCTCTGACCCTAGCTCTTTCCTTTTTTTTTTTT

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FIGURE 5565

MDGSGEQPRGGGPTSSSEQIMKTGALLLQGF IQDRAGRMGGEAPELALDPVPQDASTKKLSECLKRIGDELDNME
LQRMIAAVDTDSPREVFFRVAADMFS DGNFNWGRVVALFYFASKLVLKALCTKVPELIRTIMGWTLDFLRERLLG
WIQDQGGWVRLKPPHPHHRALTTAPAPPSLPPATPLGPWAFWSRSQWCPLPIFRSSDVVYNAFSLRV

FIGURE 5566

[illegible]

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FIGURE 5567

MPPSGPRGTL L L L L L P L L L L L L R A V L A V P L E R G A P N K E E T P A T E S P D T G L Y Y H R Y L Q E V I D V L E T D G H F R E K L Q A A
N A E D I K S G K L S R E L D F V S H H V R T K L D E L K R Q E V S R L R M L L K A K M D A E Q D P N V Q V D H L N L L K Q F E H L D P Q N Q H T F E
A R D L E L L I Q T A T R D L A Q Y D A A H H E E F K R Y E M L K E H E R R R Y L E S L G E E Q R K E A E R K L E E Q Q R R H R E H P K V N V P G S Q
A Q L K E V W E E L D G L D P N R F N P K T F F I L H D I N S D G V L D E Q E L E A L F T K E L E K V Y D P K N E E D D M R E M E E E R L R M R E H V
M K N V D T N Q D R L V T L E E F L A S T Q R K E F G D T G E G W E T V E M H P A Y T E E L R R F E E L A A R E A E L N A K A Q R L S Q E T E A L
G R S Q G R L E A Q K R E L Q Q A V L H M E Q R K Q Q Q Q Q Q G H K A P A A H P E G Q L K F H P D T D D V P V P A P A G D Q K E V D T S E K K L L E
R L P E V E V P Q H L

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FIGURE 5568

ATGGCCGCAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC
CCCGGCGAGCCCCCTGGTGTTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCCTGCAG
CTGTTTGAGGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGCGCCTCTTCCGCCCCCTGGCTCAACATGGAC
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCATCCGCCGG
CTCATCGAAGTGGACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTGGG
AACGAGCCCTCGCTGGGTGTGAGCCAGCCCAGGCGCGCGCTCCTGTTCGTCATTCTCTGCCCAGTGGGTGCCTAC
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCTGGGTGGGCGGGGTC
GGCAACTACAAGTTAGGTGGGAATTATGGGCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA
CAGGTCTCTGGCTGTATGGGCCCCGACCACCAGCTCACCGAGGTGGGAACCATGAACATCTTTGTCTACTGGACC
CACGAAGATGGGGTGTGAGGCTGGTGACGCCCCCGCTGAATGGTGTTATCCTGCCTGGAGTGGTCAGACAGAGT
CTACTGGACATGGCTCAGACCTGGGGTGAGTTCCGGGTGGTGGAGCGCACGATCACCATGAAGCAGTTGCTGCGG
GCCTTGGAGGAGGGCCGCGTGCGGGAAGTCTTTGGCTCGGGCACCCTTGCCAGGTCTGCCCAGTGCACCGAATC
CTGTACAAAGACAGGAACCTCCATATTCCCACCATGGAAAATGGGCCTGAGCTGATCCTCCGCTTCCAGAAGGAG
CTGAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGGATGTTCCCGGTGTGAAGCTGCAGGCTGTGCTCCAGA
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGCAATACGAAA
TAAAAGGCCAGCGGGCGGCGTCTGGGTCTCTGGCGCCCCCATGTGGTTGCGCACTCCCAAAGCCGTAAGGGCCG
ACCCAGGCATCTTGGCCCCCAGCCCCTCGTCGCGGGTTCAGGTCCGCCCATTAATCTCTTGTGCTGCGGTCAAGGA
TACACCTTGGCCCCGATTCCGGATCTCTCCGTTCTCAGGCCAGACCCCTGGTGCTGCCGTTGATTTTTTTTTCTC
TGTCTTTGCTGCAATTTTGAATAAAATGCCAAAGAACACAAAAAA

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FIGURE 5569

MAAAALGQIWARKLLSVPWLLCGPRRYASSSFKAADLQLEMTQKPHKKPGPGGEPLVFGKTFTDHMLMVEWNDKGW
GQFRIQPFQNLTLHPASSSLHYSLQLFEGMKAFKQKDDQVRLFRPWLNMMDRMLRSAMRLCLPSFDKLELLECIRR
LIEVDKDWVPDAAGTSLYVRPVLIGNEPSLGVSQPRRALLFVILCPVGAYFFPGGSVTPVSLLADPAFIRAWVGGV
GNYKLGGNYGPTVLVQQEALKRGCEQVLWLYGPDHQLTEVGTMNIFVYWTHEDGVLELVTPPLNGVILPGVVRS
LLDMAQTWGEFRVVERTITMKQLLRAL E EGRVREVFSGGTACQVCPVHRILYKDRNLHIPTMENGPELILRFQKE
LKEIQYGIRAH EWMFPV

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FIGURE 5570

TCTGCTCTGAGCCCCGCCCAGCCCAGAAACCCCACTAGCCTGGGGCCTGAGAACAGCCACGCCACTCCCTCCTG
AGAGCCCACCGCGCCACAGCTTGGAGGAAGAGCCTGCGGGGAAGTGGCTGCAGGACGCTCTCTTCTTGAGTGCAG
GTGCTGGCTCTGCTGTGACCATGCCCCGTGACCTTTGCCCTCCTGCTCCTTGGGCCAGGCCACTGCGGACCCAT
GCTACGATCCACAGGGCCGCCCCAATTCTGCCTCCCGCCAGTGACACAGCTGGCTGCCGTGGCGGCCCTCCTGCC
CTCAGGCCTGTGCCCTGTCCCCAGGAAACCACCTTGGCGCCAGGGAAACCTGCAATGGCAGCCTGACTTTGGCCC
TGGGTGGCCCCCTTCTCCTGACATCTGTCTAGCTTGCCTTCTGTACCCAGGACCCCCAGCCCTCATCCTGTCTG
CTGCCTGGGCCTCAGGGGGTCCCTGGAGGCTGCTGTGGCACAGGCCCGCCTGGCCTGGGGCCTTAGGGGGCCCTG
AAAGGGTGACCTTCCACTCCACACCAGGTCCTAAGGCCACTGTGGCGGCCAGCCACCTCCGTGTGGAGTTTGGGG
GCCAGGCCGGGCTAGCGGCAGCTGGGCTGAGAGGCCGCTGCCAGTGTATGGCCACGCTGCCCGCTGTGCCGCC
GTGCCCCGGCCCCCGCTGCCACTGCCGCCACCATACTACTGGCCCCGGGTGCGAGAGCTGCCGCCCGTCCCATC
GAGACTGGCCCTGGCGGCCTGCCACGCCCCGGCACCCCCACCCTTGCTTACCCTGCTCCTGCAACCAGCACGCC
GACGCTGCCGGTTCAACTCTGAGCTGTTTCACTGTCTGGCGGCCCGGAGTGGGGGTGTTTGTGAGCGGTGCCGCC
ACCACACAGCTGGGGGGCACTGCCACTACTGCCAACCTGGGTCTTGAGGGACCTAGCCAGCCTATCTTCAGCC
GCAGGGCCTGCAGAGCCTGCCAGTGCCACCCTATTGGGGCAACAGGAGGAACCTGCAACCAGACCAGTGGGCAGT
GCACCTGCAAGTTAGGGGTACAGGCCTGACCTGCAACCGCTGTGGCCCTGGCTACCAGCAGAGCCGCTCCCCA
GGATGCCCTGCCAGCGAATTCCAGAGGCAACAACCACCCTTGCCACTACTCCTGGTGCTTATAGCTCTGACCCTC
AGTGTCAAACTACTGCAATATGTCTGGACACCAGGGTACACATGAGCCTTCGGAGGTACTGCCAGCAGGACCATG
TTCTCCGCGCGCAGGTGCTAGCGTCCGAGGCGGCGGGCCCGGCATGGCAGCGGCTGGCCGTGCGCGTCTGGCCG
TTTACAAGCAGCGGGCGCAGCCCGTGCGACGCGGCGACCAGGACGCCTGGGTGCCCCGCGCCGACCTGACCTGCG
GCTGCCTGCGCCTGCAGCCAGGCACCGACTACCTGCTGCTGGGCAGCGCCGTGGGCGACCCCGACCCACGCGCC
TCATCCTCGACCGCCACGGCCTCGCGCTGCCATGGAGGCCGCGCTGGGCCCCGCCCCCTGAAGCGGCTGCAGCAGG
AGGAGCGCGCCGGAGGCTGCCGCGGCGTGCGGGCACCCACACCCAGTCCCAGGCCGGAGCACTAGACGTGAGATG
GGGCTGCCTCGAGACCAACAAAGTAATTTGGGAGCGACTAGGAGCTGAGCCTTCTACCTCGACGGTGCAGTCA
GAGAGCCAATCAGACGTGCGAGAGCCCCGACGACACTATGCTTGCGCCACGCCGAGCAGGCGTGCAGAACTTTT
AGCAAAAGGCGGCAAGCGGGACTTCTGGTCCCCAACATTTCTCCTTTGGCCTGTGGCTTATTCCCCGCCAGTGAT
CTGTTTCCCCCAATAAAGTCTCAAATCTTTGGG

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FIGURE 5571

CTTTCCGGACCTGGCCGAGCAGGAGGCGCCATCATGGGAGTGGACATCCGCCATAACAAGGACCGAAAGGTTTCGG
CGCAAGGAGCCCAAGAGCCAGGATATCTACCTGAGGCTGTTGGTCAAGTTATACAGGTTTCTGGCCAGAAGAACC
AACTCCACATTCAACCAGGTTGTGTTGAAGAGGTTGTTTATGAGTCGCACCAACCGGCCGCCTCTGTCCCTTTCC
CGGATGATCCGGAAGATGAAGCTTCCTGGCCGGGAAAACAAGACGGCCGTGGTTGTGGGGACCATAAACTGATGAT
GTGCGGGTTCAGGAGGTACCCAAACTGAAGGTATGTGCACTGCGCGTGACCAGCCGGGCCCCGAGCCGCATCCTC
AGGGCAGGGGGCAAGATCCTCACTTTCGACCAGCTGGCCCTGGACTCCCCTAAGGGCTGTGGCACTGTCCTGCTC
TCCGGTCCTCGCAAGGGCCGAGAGGTGTACCGGCATTTGCGCAAGGCCCCAGGAACCCCGCACAGCCACACCAA
CCCTACGTCCGCTCCAAGGGCCGGAAGTTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTTAA
CCCTGGATCCTACTCTCTTATTAAAAAGATTTTGTCTGACAAAAAAA

6038/6881
FIGURE 5572

MGVDIRHNKDRKVRRKEPKSQDIYLRLLVKLYRFLARRTNSTFNQVVLKRLFMSRTNRPPLSLSRMIRKMKLPGR
ENKTAVVVGTTITDDVRVQEVPKLKVCALRVTSRARSRI LRAGGKILTFDQLALDSPKGC GTVLLSGPRKGRE VYR
HFGKAPGTPHSHTKPYVR SKGRKFERARGRRASRGYKN

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FIGURE 5573

CTGCAGGGCCAGGCCTGGCCACACTTGGGCTGCTTCTCCTATCCCTCGTACCAGCCAGCCCCAGGCCTTCTGGAA
CTCTCAGCTGCCTCATCCTGCCTGCTTTTCCCTTCAACACTGCTTGGAGCTGTGTTTTCCAGGGCCTGAGCAGGC
'ATCTCCTGGGGAGCATGCAGTTCACCGGCCTTTGCCAGCCCAGGCTGGGACCCCTCCAGGTGGTGGGGCAGGTGCT
TCCATAGCCCCTCCTGGCTCCTTGGCTTCCCCTCCCTCCTCTCCCCACAGACCCTACGTCCGCTCCAAGGGCCG
GAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAACCCTGGATCCTACTCTCTTATTA
AAAAGATTTTGTGCTGAC

6040/6881
FIGURE 5574

GGCACGAGGGTTTCGAAGATGGCGGCGCGCAAGGGTCGGCGTCGCACGTGTGAAACCGGGGAACCCATGGAAGCCG
AGTCCGGCGACACAAGTTCCGAGGGCCCCGGCCAGGTCTACCTGCCCGCCGGGGGCCGCGCTACGCGAAGGGG
AGGAGCTGGTTCATGGACGAGGAGGCCTATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTG
ACATAGTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCCTCTTACACTTTACTTGTGTGCTGGGACCCAGG
CTGAGAGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCACCCTCAG
AGGGCAGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCA
TGGTGCCCCACTATGGTGGCATCAACCGAGTTCGGGTGTCATGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGT
CAGAGAAGGGCCAGGTGGAGGTGTTTGCGCTGCGGCGGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAG
CCTTCCTCCGGGATGAGCAGGCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCC
TTGACTGGTCCCCCGGGTGACCGTGCCTGCTGACCGGTGACTGTCAAAAAGAACATCCACCTCTGGACACCTA
CGGACGGCGGCTCCTGGCACGTGGACCAGCGGCCATTTCGTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGT
CACCGACTGAGAACACGGTGTGCTCCTGCTCAGCTGACGCTCCATCCGCATCTGGGACATCCGGGCAGCCC
CCAGCAAGGCCTGCATGCTCACCACAGCCACCGCCCATGATGGGGACGTCAATGTCATCAGCTGGAGCCGCCGGG
AGCCCTTCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCC
CAGTGGCCACCTTCAAGCAGCACGTGGCCCCCGTGACCTCCGTGAGTGGCACCCCCAGGACAGCGGGGTCTTTG
CAGCCTCGGGTGCAGACCACCAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCTGAGGCGGGCGACGTGG
AGGCCGACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTTCGTGCACACAGGGCGAGACCAGCTGAAGGAGC
TGCACTGGCACCCCGCAGTGCCAGGGCTCCTGGTCAGCACGGCGCTGTCAGGCTTCACCATCTTCCGCACCATCA
GCGTCTGAGGCGTCCCACTGGCTCTGATCTTGCTTCCTGCTTGGAACCTGAAGTCGAATTGGGCTCCCCTGGAAG
GGGTTTATTAGGTCTGTTGACTGAGACTGGCCGGCCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTT
CTCTAGAAGGCCTGGCTCTGATCCAGTGACCCCTCTCACCAAAGAACTCGGTTTAACCAGGGCTCTGTAAGACCA
CTCCCACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCTTCTCTGTCAGCTGTGACCCATTTGA
CCTGTGTCCCCAGAACCAGTTTTTTGTTTGTGTTTGTGTTGAGACGGAGTCTTGGTCTGTGCGCCAGGCTGGAGTGC
AGTAGCACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTTAAAGTGATTCTCTCAGCTCAGTCTCCCAGGTA
GCTGGGATTACAGGCATGTGCCACCACACCCCGTTAATTTTTGTATTTTAGTAGAGACGGGGTTTACCATGTT
GGCCAGGCTGGTCTCAAATCTTGATCTCAAGTGATCTGTCCGCCCGGCCTCCAGAGTGCTGGGTGGGATTA
CAGGCGTGAGCCACCGCTCCGGCTCAGGACCCAGTTTTGGCTGCTGGTTCAGCAGGGGACTCGGGGGATATA
CAGTGGCTGCACCAAATGGAGGTGTGGGTTCCCTCAACACAATTTGCTTCTGCCCCTTCTTCTGCCAGCTG
GGTTTGGCCAGGATTTCTCCGTGTGGGGCTACATGCGACCTCTCCCCTCCTCCCTGACTTTAGAGGCTGGTGC
TGTGTCGGGAGGAAGGTCAGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTAACAAAAAAA
AAAAAAAAAAAA

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FIGURE 5575

MAARKGRRRTCETGEPMEAESGDTSSSEGPAQVYLPGRGPPLREGEELVMDEEAYVLYHRAQTGAPCLSFDIVRDH
LGDNRTEPLTLYLCAGTQAESAQSNRLMMLRMHNLHGKPPPSEGSDEEEEEDEEDEERKPQLELAMVPHYG
GINRVRVSWLGEEPVAGVWSEKGQVEVFALRRLQVVEEPQALAAFLRDEQAQMKPIFSFAGHMGEFALDWSPR
VTGRLLTGDCQKNIHLWTPDGGSWHVDQRPFVGHTRSVEDLQWSPTENTVFASCSADASIRIWDIRAAPSKACM
LTTATAHDGDVNVISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVTSVEWHPQDSGVFAASGAD
HQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKELHWHWPQCPGLLVSTALSGFTIFRTISV

6042/6881
FIGURE 5576

CTAAAGGTCCCCTCCCCGGAGCGGAGCGCACCTAGGGTCCCTCTTCCGTCCCCCAGCCCAGCTACCCGTTTCAGA
CCAGCAGCCTCGGGGGGCACCCCCCGCCAGCCTGCCTCCCTCCCGCTCAGCCCTGCCAGGGTTCCCCAGCCATGA
ATCTCTTCCGATTCTTGGGAGACCTCTCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAATCTGGAAGTCCC
GCTCGTGCGCCGGAATTTAGGGAAGAGCCAGGTCTGTTTGCTGTGGTGTTCACTGCCCAGATATCTGGACCTCT
TCACCAACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTCACCACGGTCTGGT
TGATTTATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTTACAGAGTGGAGTTCCTGGTCGTTCCCA
CAGCCATTCTGGCGTTTCTGGTCAATCATGACTTCACCCCTCTGGAGATCCTCTGGACCTTCTCCATCTACCTGG
AGTCAGTGGCCATCTTGCCGCAGCTGTTTCATGGTGAGCAAGACCGGCGAGGCGGAGACCATCACCAGCCACTACT
TGTTTGCGCTAGGCGTTTACCGCACGCTCTATCTCTTCAACTGGATCTGGCGCTACCATTTCGAGGGCTTCTTCG
ACCTCATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAG
TCCTAAAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGGTCTCTCCATCTCTCTCCTCGGCAGCAGCGGGAG
GCAGAGGAAGGCGGCAGAAAGATGAAGAGCTTTCCCATCCAGGGGTGACTTTTTTAAGAACCCACCTCTTGCTGCTC
CCCATCCCGCTCCTGCCGGGTTTCAGGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGGCTGT
TTGTAGTTTTTTGCCTTTTAGACAAGAAAAAAATCTTTCCACTCTTTAGTTTTTGATTCTGATGACTCGTTTT
TTCTTCTACTCTGTGGCCCAAATTTTATAAAGTGA

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FIGURE 5577

MNLFREFLGDLSHLLAIILLKKIWKSRSCAGISGKSQVLFAVVFTARYLDLFTNYISLYNTCMKVVIACSF_{TTV}
WLIYSKF_{KATYDGNHDTFRVEFLVVPTAILAFLVNHDFTPLEILWTF}SIYLESVAILPQLFMVSKTGEAETITSH
YLFALGVYRTLYLFNWIWRYHFEGFFDLIAIVAGLVQTVLYCDFFYLYITKVLKGKKLSLPA

6044/6881
FIGURE 5578

AAGAAGTGGCGAAGTTACTTTTGGAGGGTATTTGAGTAGCGGCGGTGTGTCAGGGGCTAAAGAGGAGGACGAAGAA
AAGCAGAGCAAGGGAACCCAGGGCAACAGGAGTAGTTCACTCCGCGAGAGGCCGTCCACGAGACCCCCGCGCGCA
GCCATGAGCCCCGCCCCCGCTGTTGCTTGAGAGAGGGGCGGGACCTGGAGAGAGGCTGCTCCGTGACCCCAACAT
GTCCTCTCTACCACGAGTTCCCTGGATACCCCTGCCTGGAAATGGCCCCCTCAGCCTGGCGCCCCCTTCTTC
TTCACCCACTGTAAAGGAGGAGGGTCCGGAGCCGTGGCCCGGGGGTCCGGACCCTGATGTCCCAGGCACTGATGA
GGCCAGCTCAGCCTGCAGCACAGACTGGGTCATCCCAGATCCCGAAGAGGAACCAGAGCGCAAGCGAAAGAAGGG
CCCAGCCCCGAAGATGCTGGGCCACGAGCTTTGCCGTGTCTGTGGGGACAAGGCCTCCGGCTTCCACTACAACGT
GCTCAGCTGCGAAGGCTGCAAGGGCTTCTTCCGGCGCAGTGTGGTCCGTGGTGGGGCCAGGCGCTATGCCTGCCG
GGGTGGCGGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGA
GGCAGGGATGAGGGAGCAGTGCGTCCCTTCTGAAGAACAGATCCGGAAGAAGAAGATTCGGAACAGCAGCAGGA
GTCACAGTCACAGTCGAGTCACCTGTGGGGCCGAGGGCAGCAGCAGCTCAGCCTCTGGGCCTGGGGCTTCCCC
TGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGGAAGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAACTAAT
GATCCAGCAGTTGGTGGCGGCCCAACTGCAGTGCAACAAACGCTCCTTCTCCGACCAGCCCCAAAGTCACGCCCTG
GCCCTGGGCGCAGACCCCCAGTCCCGAGATGCCCGCCAGCAACGCTTTGCCCACTTACCGAGCTGGCCATCAT
CTCAGTCCAGGAGATCGTGGACTTCGCTAAGCAAGTGCCTGGTTTCTGCTGAGCTGGGCCGGGAGGACCAGATCGC
CCTCCTGAAGGCATCCACTATCGAGATCATGTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT
CACCTTCTTGAAGGACTTACCTACAGCAAGGACGACTTCCACCGTGCAGGCCTGCAGGTGGAGTTCATCAACCC
CATCTTCGAGTTCTCGCGGGCCATGCGGGCGGCTGGGCCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAA
CATCTTCTCGGCCGACCGGCCCAACGTGCAGGAGCCGGGCGCGTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC
GCTGCTGTCTACACGCGCATCAAGAGGCCGCGAGGACCAGCTGCGCTTCCCGCGCATGCTCATGAAGCTGGTGAG
CCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTGCCTTGGCGCTCCAGGACAAGAAGCTGCCGCCCTCT
GCTGTGCGAGATCTGGGACGTCCACGAGTGAGGGGCTGGCCACCCAGCCCCACAGCCTTGCCCTGACCACCTCCA
GCAGATAGACGCCGGCACCCCTTCCCTCTCCTAGGGTGGAAGGGGCCCTGGGCCGAGCCTGTAGACCTATCGGCT
CTCATCCCTTGGGATAAGCCCCAGTCCAGGTCCAGGAGGCTCCCTCCCTGCCAGCGAGTCTTCCAGAAGGGGTG
AAAGGGTTGCAGGTCCCGACCACTGACCCTTCCCGGCTGCCCTCCCTCCCCAGCTTACACCTCAAGCCCAGCAGC
CAGTGACCTTGAACAGAGGGAGGGGAGGACCCATGGCTCTCCCCCTAGCCCGGGAGACCAGGGCCTTCCCTCTT
CCTCTGCTTTTATTTAATAAAAACTAAAAACAGAAA

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FIGURE 5579

MSSPTTSSLDITPLPGNGPPQPGAPSSSPTVKEEGPEPWPGGPDVPGTDEASSACSTDWVIPDPEEEPERKRKK
GPAPKMLGHELCRVCGDKASGFHYNVLSCEGCKGFFRRSVVRGGARRYACRGGGTCQMDAFMRRKCQQCRLRKCK
EAGMREQCVLSEEQIRKKKIRKQQQESQSQSQSPVGPQGSSSSASGPGASPGGSEAGSQSGEGEGVQLTAAQEL
MIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQEIVDFAKQVPGFLQLGREDQI
ALLKASTIEIMLLETARRYNHETECITFLKDFITYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDAEYALLIAI
NIFSADRPNVQEPGRVEALQQPYVEALLSYTRIKRPQDQLRFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLP
LLSEIWDVHE

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FIGURE 5580

AGTCAGGGGTCACGGCGGCGTAGGCTGTGGCGGGAAACGCTGTTTGAAGCGGGATGCGATGGCAAGCGGCGGCCAG
GCCCAGGGCCCCGGGGTGCCCCAAAGCGGGCCCGTGGGGGCCCTCTGGGATGATGATGATGCACCTTGGCCATCCC
AATTTCGAGGAGGACCTGGCACTGATGGAGGAGATGGAGGCAGAACACAGGCTGCAGGAGCAGGAGGAGGAGGAGC
TGCAGTCAGTCCTGGAGGGGGTTGCAGACGGGCAGGTCCCACCATCAGCCATAGATCCTCGCTGGCTTCGGCCCA
CACCACCAGCGCTGGACCCCCAGACAGAGCCCCCTCATCTTCCAACAGTTGGAGATTGACCATTATGTGGGCCAG
CGCAGCCTGTGCCTGGGGGGCCCCCACCATCCCGCGGCTCCGTGCCTGTGCTCCGCGCCTTCGGGGTCACCGATG
AGGGGTTCTCTGTCTGTCTGCCACATCCACGGCTTCGCTCCCTACTTCTACACCCAGCGCCCCCTGGTTTCGGGC
CCGAGCACATGGGTGAÇCTGCAACGGGAGCTGAACTTGGCCATCAGCCGGGACAGTCGCGGGGGGAGGGAGCTGA
CTGGGCCGGCCGTGTCTGGCTGTGGAAGTGTGCTCCCGAGAGAGCATGTTTGGGTACCACGGGCACGGCCCCCTCCC
CGTTCTTCTGCGCATCACCGTGGCGCTGCCGCGCCTCGTGGCCCCGGCCCCGCGTCTCCTGGAACAGGGCATCCGTG
TGGCAGGCCTGGGCACGCCCAGCTTCGCGCCCTACGAGGCCAACGTCGACTTTGAGATCCGGTTCATGGTGGACA
CGGACATCGTCGGCTGCAACTGGCTGGAGCTCCCAGCTGGGAAATACGCCCTGAGGCTGAAGGAGAAGGCTACGC
AGTGCCAGCTGGAGGCGGACGTGCTGTGGTCTGACGTGGTCAGTCACCCACCGGAAGGGCCATGGCAGCGCATTG
CGCCCTTGCGCGTGTCTAGCTTCGATATCGAGTGCGCCGGCCGCAAAGGCATCTTCCCTGAGCCTGAGCGGGACC
CTGTATCCAGATCTGCTCGCTGGGCCTGCGCTGGGGGGAGCCGGAGCCCTTCTACGCCTGGCGCTCACCTGCG
GGCCCTGTGCCCCCATCCTGGGTGCCAAGGTGCAGAGCTACGAGAAGGAGGAGGACCTGCTGCAGGCCTGGTCCA
CCTTCATCCGTATCATGGACCCCCGACGTGATCACCGGTTACAACATCCAGAACTTCGACCTTCCGTACCTCATCT
CTCGGGCCCAGACCCTCAAGGTACAAACATTCCCTTTCTGGGCGGTGTGGCCGGCCTTTGCTCCAACATCCGGG
ACTCTTCATTCCAGTCCAAGCAGACGGGCCGGCGGGACACCAAGGTTGTGAGCATGGTGGGCCGCGTGCAGATGG
ACATGCTGCAGGTGCTGCTGCGGGAGTACAAGCTCCGCTCCACACGCTCAATGCCGTGAGCTTCCACTTCTCTGG
GCGAGCAGAAGGAGGACGTGCAGCACAGCATCATCCGACCTGCAGAAATGGGAACGACCAGACCCGCCGCCGCC
TGGCTGTGTACTGCCTGAAGGATGCCTACCTGCCACTGCGGCTGCTGGAGCGGCTCATGGTGTGGTGAACGCCG
TGGAGATGGCGAGGGTCACTGGCGTGCCCCCTCAGCTACCTGCTCAGTCGTGGCCAGCAGGTCAAAGTCGTATCCC
AGCTGTTGCGGCAGGCCATGCACGAGGGGCTGCTGATGCCCGTGGTGAAGTCAGAGGGCGGCGAGGACTACACGG
GAGCCACTGTTCATCGAGCCCCCTCAAAGGGTACTACGACGTCCCCATCGCCACCCTGGACTTCTCCTCGCTGTACC
CGTCCATCATGATGGCCACAACCTGTGTTACACCACGCTCCTTCGGCCCCGGGACTGCACAGAACTGGGCCTGA
CTGAGGATCAGTTTCATCAGGACCCCCACCGGGGACGAGTTTGTGAAGACCTCAGTGCAGGAAGGGGCTGCTGCCCC
AGATCCTGGAGAACCTGCTCAGTGCCCCGAAGAGGGCCAAGGCCGAGCTGGCCAAGGAGACAGACCCCCCTCCGGC
GCCAGGTCCTGGATGGACGGCAGCTGGCGCTGAAGGTGAGCGCCAACCTCCGTATACGGCTTCACTGGCGCCCAGG
TGGGCAAGTTGCCGTGCCCTGGAGATCTCACAGAGCGTCACGGGGTTCCGGACGTCAGATGATCGAGAAAACCAAGC
AGCTGGTGGAGTCTAAGTACACAGTGGAGAATGGCTACAGCACCAGTGCCAAGGTGGTGTATGGTGACACTGACT
CCGTATGTGCCGATTCCGGCTGTCTCGGTGGCTGAGGCGATGGCCCTGGGGCGGGAGGCCGCGGACTGGGTGT
CAGGTCACTTCCCGTCGCCCATCCGGCTGGAGTTTGAGAAGGTCTACTTCCCATACCTGCTTATCAGCAAGAAGC
GCTACGCGGGCCTGCTCTTCTCCTCCCGGCCCGACGCCCACGACCGCATGGACTGCAAGGGCCTGGAGGCCGTGC
GCAGGGACAACCTGCCCCCTCGTGGCCAACCTGGTCACTGCCTCACTGCGCCGCTGCTCATCGACCGAGACCCTG
AGGGCGCGGTGGCTCACGCACAGGACGTATCTCGGACCTGCTGTGCAACCGCATCGATATCTCCAGCTGGTCA
TCACCAAGGAGCTGACCCGCGCGGCCTCCGACTATGCCGGCAAGCAGGCCACGTCGAGCTGGCCGAGAGGATGA
GGAAGCGGGACCCCGGAGTGCGCCAGCCTGGGCGACCGCGTCCCTACGTGATCATCAGTGCCGCCAAGGGTG
TGGCCGCCTACATGAAGTCGGAGGACCCGCTGTTCTGTCTGGAGCACAGCCTGCCATTGACACGCAGTACTACC
TGGAGCAGCAGCTGGCCAAGCCCCCTCTGCGCATCTTCGAGCCCATCCTGGGCGAGGGCCGTGCCGAGGCTGTGC
TACTGCGGGGGGACCACGCGCTGCAAGACGGTGCTCACGGGCAAGGTGGGCGGCCTCCTGGCCTTCGCCAAAC
GCCGCAACTGCTGCATTGGCTGCCGCACAGTGCTCAGCCACCAGGGAGCCGTGTGTGAGTTCTGCCAGCCCCGGG
AGTCTGAGCTGTATCAGAAGGAGGTATCCCATCTGAATGCCCTGGAGGAGCGCTTCTCGCGCCTCTGGACGCAGT
GCCAGCGCTGCCAGGGCAGCCTGCACGAGGACGTATCTGCACCAGCCGGGACTGCCCCATCTTCTACATGCGCA
AGAAGGTGCGGAAGGACCTGGAAGACCAGGAGCAGCTCCTGCGGCGCTTCGGACCCCTGGACCTGAGGCCTGGT
GACCTTGCAAGCATCCCATGGGGCGGGGGCGGGACCAGGGAGAATTAATAAAGTTCTGGACTTTTGCT

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FIGURE 5581

MDGKRRPGPGPGVPPKRARGGLWDDDDAPWPSQFEEDLALMEEMAEHRLQEQQEEEELQSVLEGVADGQVPPSAI
DPRWLRPTPPALDPQTEPLIFQQLEIDHYVGPAQPVPGPPPSRGSVPVLRAFGVTDEGFSVCCHIHGFAPYFYT
PAPPGFGPEHMGDLQRELNLAISRDSRGGRELTGPAVLAVELCSRESMFGYHGHGPPSPFLRITVALPRLVAPARR
LLEQGIRVAGLGTPSFAPYEANVDIFEIRFMVDTDIVGCNWLELPAGKYALRLKEKATQCQLEADVLSWDVVSHP
EGPWQRIAPLRVLSFDIECAGRKGIFPEPERDPVIQICSLGLRWGEPEPFLRLALTLRPCAPILGAKVQSYEKEE
DLLQAWSTFIRIMDPDVTGYNIQNFDLPYLISRAQTLKVQTFPFLGRVAGLCSNIRDSSFQSKQTGRDRTKVVS
MVGRVQMDMLQVLLREYKLRSHTLNAVSFHFLGEQKEDVQHSIITDLQNGNDQTRRRLAVYCLKDAYLPLRLLER
LMVLVNAVEMARVTGVPLSYLLSRGQQVKVVSQLLRQAMHEGLLMPVVKSEGGEYTGATVIEPLKGYDVP
LDFSSLYPSIMMAHNLCYTLLRPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQILENLLSARKRAKAE
KETDPLRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCLISQSVTGFRQMIKTKQLVESKYTVENGYSTSAK
VYGDTSVMCRFGVSSVAEAMALGREAADWVSGHFPSPIRLEFEKVYFPYLLISKKRYAGLLFSSRPDAHRMD
CKGLEAVRRDNCPVLANLVITASLRLLIDRDEGAVAHQDVISDLLCNRIDISQLVITKELTRAASDYAGQAH
VELAERMKRDPGSAPSLGDRVPYVIIISAAKGVAAYMKSEDPFLVLEHSLPIDTQYYLEQQLAKPLLRIFEPILG
EGRAEAVLLRGDHTRCKTVLTGKVGGLLAFARRNCCIGCRTVLSHQGAVCEFCQPRESELYQKEVSHLNLEER
FSRLWTQCQRCQGLHEDVICTSRDCPIFYMRKKVRKDLEDQEQLLRRFGPPGPEAW

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FIGURE 5582

GCCTCCTTCCGTCTGTAACTCACCTAAAGACCCAAGACCTGCGACATCCGTAGACCGCGCCCGCTATGCACAGCT
AAAGAGCACTCACCCCTCGCGCACCAGTCCCGGCCCCGCGAGCCGCTGCCCCGGGCTCGACTGGGCGCTGCTACCG
CCATCAGCAAGAGCAGGAGCAGCCGGTTGCCCCAGCGCTGGCTGCCGCCATCTCGGCTTCTTCCCACCAGCGAA
GGGACGGCTGTGAGCCAAGAGCCGCGGAGCACGCCGGGAGGAACAGGCCGCATCCTGACGCCCGTGCGCCTGCGC
TGGGCCCCGGCACCTGCGCACTGGCACCCGTCCGCACCTGGGGCCTGACGTCAGCAGGATGGGGCGCCCTTTG
GCCTGATCTCCAGGAGCCGCCCCCTCCAGGGACGTCATCACAAATCAGGAGCCCGCTCTTGTGTGACGTCATAAA
GCCCCGTCCGCATCATGACGTCACAGTGCGCGTAGTCCCGCCCCCTCGCTTTCTCCCTCTGCTCCTCCGTCCGCT
CCCGTCGGACGGGGACATTGCAATGAGGCGGGATCGCGGCCCTAAGCCGGCCCTGGGTGGAGCTGGCGAGGTGGA
ACCAGGTGGGATGGCAGCCTCTCCACGGGCGGTCCAGACGGCTCCAACGCTACCTCCAGAGCGGCGAATTGGA
CCAGTTTCGGGACTTCCCCATCTTTGAGAGCAACTTCGTACAGTTCTGCCCCGACATCTATCCTGCCCCGACCTC
TGACCTCTGGCCCCAGGTGACTCGGTTGGGAGAAGTTGCCAACGAGGTCACCATGGGGGTGGCAGCCTCCAGTCC
AGCCCTGGAGCTCCCGGACCTATTGCTTCTGGCCGGCCCTGCCAAGGAGAACGGACACCTGCAACTCTTCGGGCT
GTTCCCTTGAAGTTCGTCCAGCTCTTTGTCCACGACAAAAGCCGGTGTGAGCTCGAGGTCAAGTTGAACACCAG
CCGCACCTTCTACTTGAGCTGCGGGCCCCACTCAAGACCCGAGACCGAGAGTTCGGCCAGTGGGTGCGGCTGCT
CTACCGCCTGCGCTTCTCTGCTTCTGCTGTGCCCTTCACGCAGGAGTAAGAGCCCCAAGGCGTGGAAGCCAG
ACTTGACCCCAAGACCTCTGAACTCTGGGGACTCTGAGTCTTCCAGCATCCTTCAAGGTCACCGAATGACCAGAG
ATCAAAGTACCTTGCCTCAGGGCCGGGCAGATGAGATATTAAAGTTAATAAAGGTCAGTCCATTAAGAACCAA

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FIGURE 5583

MGPPLWPDLOEPPPPGTSSQIRSPLLCDVIKPAPHHDVTVRVVPPPRFLPLLLRPLPSDGD IAMRRDRGPKPALG
GAGEVEPGGMAASPTGRPRRLQRYLQSGEFDQFRDFPIFESNFVQFCPDIYPAPTS DLWPQVTRLGEVANEVTMG
VAASSPALELPDLLLLLAGPAKENHGLQLFGLFPLKFVQLFVHDKSRCQLEVKLNTSRTFY LQLRAPLKTRDREFG
QWVRLLYRLRFLSASAVPFTQE

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FIGURE 5584

GCCGTCCTTCGCTGGTGGGAAGAAGCCGAGATGGCGGCAGCCAGCGCTGGGGCAACCCGGCTGCTCCTGCTCTT
GCTGATGGCGGTAGCAGCGCCAGTCGAGCCCCGGGGCAGCGGCTGCCGGGCCGGGACTGGTGCGCGAGGGGCTGG
GGCGGAAGGTCGAGAGGGGCGAGGCCTGTGGCACGGTGGGGCTGCTGCTGGAGCACTCATTTGAGATCGATGACAG
TGCCAACCTTCGGAAGCGGGGCTCACTGCTCTGGAACCAGCAGGATGGTACCTTGTCCCTGTCACAGCGGCAGCT
CAGCGAGGAGGAGCGGGGCCGACTCCGGGATGTGGCAGCCCTGAATGGCCTGTACCGGGTCCGGATCCCAAGGCG
ACCCGGGGCCCTGGATGGCCTGGAAGCTGGTGGCTATGTCTCCTCCTTTGTCCCTGCGTGCTCCCTGGTGGAGTC
GCACCTGTGCGACCAGCTGACCTGTCACGTGGATGTGGCCGGCAACGTGGTGGGCGTGTCGGTGGTGACGCACCC
CGGGGGCTGCCGGGGCCATGAGGTGGAGGACGTGGACCTGGAGCTGTTCAACACCTCGGTGCAGCTGCAGCCGCC
CACCACAGCCCCAGCCCTGAGACGGCGGCCTTCATTGAGCGCCTGGAGATGGAACAGGCCCCAGAAGGCCAAGAAC
CCCCAGGAGCAGAAGTCCTTCTTCGCCAAATACTGGATGTACATCATTCCCGTCGTCCTGTTCTCATGATGTCA
GGAGCGCCAGACACCGGGGGCCAGGGTGGGGGTGGGGGTGGGGGTGGTGGTGGGGGTAGTGGCCGGTGAGGGCCC
AGGCTGGTCAGCGTCCCGTCTTGACACCCAGGGGCCTCCCTTTCTGCTGGAGTCCCTGTGTCTCAGCCATCC
CAAGAAGGGTTTGCTGGTCCCTCCTTTCCCCCGTCCCACGAGGCCACCTGGGCCAGCCCCCTGTCTCTGCCTT
CTGCTGGCAGAGGAGCAGCTGGACTGGGGCCTTTGGCACAGCAGCCGGTGTCTCCTGCGCCCGCCTCCCCATGG
CCCCATGCAGCCCCAGGGGCTTCCCCCTGCCCATGGAGTAGAGCCGAGATCCTGGCCACTATGCCAGTTCTGA
CCTCGCATCCCCCTACCCCGAGCCCATGCAGTCTGGGAACATGCCGCCTTCTCTCCAGCCTCTGTGCCTTTGTTC
CAGGTGGTCTCACCTCCTGTCCCTGGCTGGGCTAGGTGGTCTGTCCAGGCTCCTGCAGCGCCCCCTCACTTT
GACACTGGACTAGGATGCAGCCTCCCTTCTGTGTCCCTTGAGGGTACCCTGGGTCCCCTCATCAGGGGCAGAGG
CATGAAAGAGTCGGGGCTGGATGGCCGGGGGCTTCTGGGCCCGACGCCTAGTGCAGCCCCTGGGGTCGTGGTTTG
ACATTTGTCTGCCTGGTGCAAACAAGGAATCCTTGCCCTTTAAGGTGACAGGCCCTCCACAGGCTTCCAGACTTGA
AGGAAAAGGTTTAAGAAAGAAAACAAAACCAACAGTTAGTGGAGTCAAAGCCCAGACACTGTAAATAGAACCCCC
TCCACCACCCCCCGCCGCCAGCATCCTACCTGGACTGCGGTGCTACGAGGGCCTGCGGGCCTTTGCTGTGTGCC
ACCCTCCCTGTAAGTCTATTTAAAAACATCGACGATACATTGAAATGTGTGAACGTTTTGAAAAGCTACAGCTTC
CAGCAGCCAAAAGCAACTGTTGTTTTGGCAAGACGGTCTGATGTACAAGCTTGATTGAAATCACTGCTCACTT
GATACGTTATTAGAAACCAAGGAATGGCTGTCCCATCCTCATGTGGCTGTGTGGAGCTCAGCTGTGTTGTGT
GGCAGTTTATTAACTGTCCCCAGATCGACACGC

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FIGURE 5585

MAAASAGATRLLLLLLLMAVAAPSRARGSGCRAGTGARGAGAEGREGEACGTVGLLLEHSFEIDDSANFRKRGSLL
WNQQDGTLSLSQRQLSEEERGLRDVAALNGLYRVRIIPRRPGALDGLEAGGYVSSFVPACSLVESHLSDDLTLHV
DVAGNVVGVSVVTHPGGCRGHEVEDVDLELFNTSVQLQPPTTAPGPETAAFIERLEMEQAQKAKNPQEQKSFFAK
YWMYIIPVVLFLMSGAPDTGGQGWGWGWGWWG

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FIGURE 5586

ATGGGGGTGGGGGGATGCGGGCTGGCAGCGGGAGAGCTGGGGACAGATGCGGAGCCCTCCCTTCACCTGCCACACA
CCTGTACCTCCACGGTTGCCTTGTCTGCCACCTTACCTCTCTCTCCCTCAGATTCTCCCATGAGTCTGACTCAA
GTCTCTGAAGCTGCTGTGAGGCCCCACAGGGCCTGGACAGGCCTCTCCCCCTTCTCTCCCCCACCACAGCCCC
CCAGCGTCCACGCGGAGCATGAACATTGAGGATGGCGCGTGCCCGCGGCTCCCCGTGCCCCCGCTGCCGCCCGC
AACCAGGCCAGCCGGGTGATCTGCACACGGAGAGACCTGGCCGAGGTCCCAGCCAGCATCCCGGTCAACACGCGG
TACCTGAACCTGCAAGAGAACGGCATCCAGGGTGGGAGGACTTGGCTGCTCCCATCTGACCATCCTGAGAGCCAG
ATTCAGGGAAGAAAAGGGACCTCTCAGGGGAGCAGTCCCTTCTGGTGGCTGTGGGGCAAGGGCCAGCGAAGGGG
TCCAGAAACGGGTTCTTGCACCGCCCCCTGCCCCACCCAGAGACATGGATGGAGGGTGTGTTCTGCTCCAGTCCACG
AGAGTGGATGCTTCTGGGTCACTGCGTGCTGAGCGCCGAGCAGCCTCAGGCTGTCCGCCTGTGGCCACGCTGTTG
TCACGGTCTCTGTCCAGAGGCACCAAGGAGACTTGGAAAACACTGTGGGCTGGAGCCCCAGGTGCACGCTCCCC
GGGACCGGCAGCCCTGCTGAGTCACTTGACTTCACCGAGCCTTGGTCTCCTGTCTCTGAAATGACGTGTGATGCT
CACCTCCAGGGCTGCCGGGGGAGTCAGCAGGAGCCTGGGGTGCCGAGAGGCTCCGGGAGCTGCAGGCAGGAGCG
ATCAGTGATGACCGGGACCTCCTCCTCCTGTTACTATTATTGATGTTATTATTATTATAAGAAATAGCAACCGAG
TGCCTGCTTTATCAATCACCAGCATTTCAGGGAGGTGATAAGCTGCGTTTGGGCATGGTACAAGTTTCTCAAC
GCCAACGATAACGATAACAATGAGAATGACGACGTGCTGAGCACCCTGAACACTGGGACCTCATCTCCTCTCCC
TCACCCTCTGAAGTGCTTTTCATCATCTCCTCGTGGTGATCCGGACGGACACGTTCAAGCACCTGCGGCACCTG
GAGATTCTGCAGCTGAGCAAGAACCTGGTGCGCAAGATCGAGGTGGGCGCCTTCAACGGGCTGCCCAGCCTCAAC
ACGCTGGAGCTTTTGTACAACCGGCTGACCACGGTGCCACAGGCCTTCGAGTACCTGTCCAAGCTGCGGGAG
CTCTGGCTGCGGAACAACCCCATCGAGAGCATCCCCTCCTACGCCTTCAACCGCGTGCCCTCGCTGCGGCGCCTG
GACCTGGGCGAGCTCAAGCGGCTGGAATACATCTCGGAGGCGGCCTTCGAGGGGCTGGTCAACCTGCGCTACCTC
AACCTGGGCATGTGCAACCTCAAGGACATCCCCAACCTGACGGCCCTGGTGCGCCTGGAGGAGCTGGAGCTGTG
GGCAACCGGCTGGACCTGATCCGCCCGGGCTCCTTCCAGGGTCTCACCAGCCTGCGCAAGCTGTGGCTCATGCAC
GCCCAGGTAGCCACCATCGAGCGCAACGCCTTCGACGACCTCAAGTCGCTGGAGGAGCTCAACCTGTCCCACAAC
AACCTGATGTGCTGCCCCACGACCTCTTCACGCCCCCTGCACCGCCTCGAGCGCGTGACCTCAACCACAACCCC
TGGCATTGCAACTGCGACGTGCTCTGGCTGAGCTGGTGGCTCAAGGAGACGGTGCCAGCAACACGACGTGCTGC
GCCCCGTGTCATGCGCCCGCCGGCCTCAAGGGGCGCTACATTGGGGAGCTGGACCAGTCGCATTTACCTGCTAT
GCGCCCGTCATCGTGAGCCGCCCACGGACCTCAACGTACCGAGGGCATGGCTGCCGAGCTCAAAATGCCGCACG
GGACCTCCATGACCTCCGTCAACTGGCTGACGCCAACGGCACCTCATGACCCACGGCTCCTACCGCGTGCGC
ATCTCCGTCTGTCATGACGGCACGCTTAACCTCACCACGGTGACCGTGAGGACACGGGCCAGTACACTGGTGGT
GTTGGAGGGGGCAGTGGCGGCTACACCTACTTCACCACGGTGACCGTGAGACCCCTGGAGACGCAGCCCGGAGAG
GAGGCCCTGCAGCCGCGGGGGACGGAGAAGGAACCGCCAGGGCCACGACAGACGGTGTCTGGGGTGGGGGCCGG
CCTGGGGACGCGGCCGGCCCTGCCTCGTCTTCTACCACGGCACCCGCCCGCGCTCCTCGCGGCCACGGAGAAG
GCGTTACGGTGCCCATCACGGATGTGACGGAGAAGCCCTCAAGGACCTGGACGACGTGATGAAGACCACAAA
ATCATCATCGGCTGCTTCGTGGCCATCACGTTTATGGCCGCGGTGATGCTCGTGGCCTTCTACAAGCTGCGCAAG
CAGCACCAGCTCCACAAGCACCACGGGCCACGCGCACCGTGAGATCATCAACGTGGAGGACGAGCTGCCCGCC
GCCTCGGCCGTGTCCGTGGCCCGCGGCCGCCGTGGCCAGTGGGGGTGGTGTGGGCGGGGACAGCCACCTGGCC
CTGCCCCCCTGGAGCGAGACCCTCAACCACCACCTACGTGGCTGCCGCCTTCAAGGCGCACTACAGCAGC
AACCCAGCGGCGGGGGCTGCGGGGGCAAAGGCCCGCTGGCCTCAACTCCATCCACGAACCTCTGCTCTTCAAG
AGCGGCTCCAAGGAGAACGTGCAAGAGACGCAGATCTGA

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FIGURE 5587

MAAAGLEAGVGAVGSHRPCGVPRPQIQALRFGPALWLRGCGLDHRQGLKSPPASTRSMNIEDGACPRLPVPPAAA
RNQASRVICTRRDLAEVPASIPVNTRYLNLQENGIQGGRTWLLPSDHPESQIQGRKGTSGGSSPFLVAVGQGPAAK
GSRNGFLHRPLPHPETWMEGVFVQSTRVDASGSLRAERRAASGCPPVATLLSRSSVQRHQGDLENTVGWSPRCTL
PGTGSPAESLDFTEPWSFVSEMTCD AHLQGCGRSQQEPGVQRLRELQAGAISDDRDL LLLLLLLLLLMLLLIEIAT
ECLLYQSPAFPREVISCWAWYKFLNANDNDNNENDDLSTPEHWDLISSPSPSEVLFIILLVVIRTDTFKHLRH
LEILQLSKNLVRKIEVGAFNGLPSLNTLELFDNRLTTVPTQAFEYLSKLRELWLRNNP IESIPSYAFNRVPSLRR
LDLGELKRLEYISEAAFEGLVNRLRYLNLGMCNLKDIPNLTA LVRLEELSGNRDLIREGSFQGLTSLRKLWLM
HAQVATIERNAFDDLSLEELNLSHNNLMSLPHDLFTPLHRLERVHLNHNPNWHCNCDVLWLSWWLKETVPSNTTC
CARCHAPAGLKGRYIGELDQSHFTCYAPVIVEPPTDLNVTEGMAAELKCRGTGTSMTSVNWLT PNGTLMTHGSYRV
RISVLHDGTLNFTNVTVQDTGQYTGGVGGGSGGYTYFTT VIVETLETQPGEEALQPRGTEKEPPGPTTDGVWGGG
RPGDAAGPASSSTTAPAPRSSRPTTEKAFTPITDVTENALKDLD DVMKTTKIIIGCFVAITFMAAVMLVAFYKLR
KQHQHLKHHGPTRTVEIINVEDELPAASAVSVAAAAAVASGGGVGGDSHLALPALERDHLNHHHYVAAAFKAHYS
SNPSGGGCGGKGPPGLNSIHEPLLFKSGSKENVQETQI

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FIGURE 5588

CACTCATTAAAGAACAGAGGAGGCTGCCTGTTACTCCTGGTGTGTCATCCCTCCAGACACTCTGCTGTTTCCTGCC
TAGGCGTGGCTGCAGCCATGGCTAGGAAAGCGCTGCCACCCACCCACCTGGGCCAGAGCTGGTTCTGCTCCTGCT
GCAGGGACACTGAGCTGGCTATCTCGGCGCTTCGGGCAAGAACTGCAACAGGCTCTCCTGGGTCCTGCAGGTGTA
CAGCCGGGCCCCCTGCCTTGTGCCTCAGCTCTCGAGAGCTGCTGCTGCCGGGTGACCTGATCCAACCTGATAAGGT
GCCATCTTCAGCTACCACTGCAAGGCCCTGAGGGCAACAGCAGCACGGCACTGCCCCACCCGGCTGCTGATGGCCT
GGTGCCAGCTGGGAGTCCTCCCGGCACTTCGAGGGCACTGAGCCACCCCTCCAGCCCCAGCCCACCATGGACAGG
GGTATCCAGCTTCCTCCTCAACCTCGTCCTCTGCCCCTGAGCCAGTGACGCCCAAGGACATGCCTGTTACCCAGG
TCCTGTACCAGCACTAGCTGGTCAAGGGC**ATG**ACAGTGCTGGAGGCCGTCTTGAGATCCAGGCCATCACTGGCA
GCAGGCTGCTCTCCATGGTGCCAGGGCCCGCCAGGCCACCAGGCTCATGCTGGGACCCAACCCAGTGCAACAAGGA
CTTGCTGCTGAGCCACACACCCAGGAGAAGGTGGATAAGTGGGCTACCAAGGGCTTCCTGCAGGCTAGGGGAGG
AGCCACCCCGCTTCCTATTGTGACCAGGCCTATGGGGAGGAGCTGTCCATACGCCACCGTGAGACCTGGGCCT
GGCTCTCAAGGACAGACACCGCCTGGCCTGGTGTCTCAGGGGTGAAGCAGGCCAGAATCCTGGGGGAGCTGCTCC
TGGTT**TGA**GCTGCATTTCAGGAAGTGCGGGACATGGTAGGGGAGGCAGCAAGCCCTTGGGCACTACCCTCCCTGTGG
AGCTGTTCCGGTGTCCTCGAGCTAGCCACACCCCTGACACCATGTTCAAGGGTACCGGAAGAGAAGGGTGTCTGCC
CCCAACCTCCCCCTGTGGGTGTCACTGGCCAGATGTGATGAGGGAAGCAGGCCTTGTGAGTGACACTGACCATGA
GTCCCTGGGGGGAGTGATCCCCCAGGCATCGTGTGCCATGTTGCACTTCTGCCCAGGCAGCAGGGTGGGTGGGTA
CCATGGGTGCCACCCCTCCACCACATGGGGCCCCAAGCACTGCAGGCCAAGCAGGGCAACCCACACCCCTTGA
CATAAAGCATCTTGAAGCTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5589

MTVLEAVLEIQAITGSRLLSMVPGPARPPGSCWDPTQCTRTWLLSHTPRRRWISGLPRASCRLGEEPPPLPYCDQ
AYGEELSIRHRETWAWLSRTDTAWPGAPGVKQARILGELLV

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FIGURE 5590

AGCCCCAAGCTTACCACCTGCACCCGGAGAGCTGTGTGTCACCATGTGGGTCCCGGTTGTCTTCCTCACCCCTGTC
CGTGACGTGGATTGGTGCTGCACCCCTCATCCTGTCTCGGATTGTGGGAGGCTGGGAGTGCAGAGAAGCATTCCCA
ACCCTGGCAGGTGCTTGTGGCCTCTCGTGGCAGGGCAGTCTGCGGCGGTGTTCTGGTGACCCCCAGTGGGTCTT
CACAGCTGCCCCACTGCATCAGGAACAAAAGCGTGATCTTGCTGGGTCCGCACAGCCTGTTTCATCCTGAAGACAC
AGGCCAGGTATTTAGGTCAGCCACAGCTTCCCACACCCGCTCTACGATATGAGCCTCCTGAAGAATCGATTTCCT
CAGGCCAGGTGATGACTCCAGCCACGACCTCATGCTGCTCCGCTGTCAGAGCCTGCCGAGCTCACGGATGCTGT
GAAGGTCATGGACCTGCCCACCCAGGAGCCAGCACTGGGGACCACCTGCTACGCCTCAGGCTGGGGCAGCATTGA
ACCAGAGGAGTTCTTGACCCCAAAGAACTTCAGTGTGTGGACCTCCATGTTATTTCCAATGACGTGTGTGCGCA
AGTTCACCCCTCAGAAGGTGACCAAGTTCATGCTGTGTGCTGGACGCTGGACAGGGGGCAAAGCACCTGCTCGGG
TGATTCTGGGGGCCCACTTGTCTGTAATGGTGTGCTTCAAGGTATCACGTCATGGGGCAGTGAACCATGTGCCCT
GCCCCAAAGGCCTTCCCTGTACACCAAGGTGGTGCATTACCGGAAGTGGATCAAGGACACCATCGTGGCCAACCC
CTGAGCACCCCTATCAACCCCTATTGTAGTAAACTTGGAACCTTGGAAATGACCAGGCCAAGACTCAAGCCTCC
CCAGTTCTACTGACCTTTGTCTTAGGTGTGAGGTCCAGGGTTGCTAGGAAAAGAAATCAGCAGACACAGGTGTA
GACCAGAGTGTTTCTTAAATGGTGTAAATTTGTCTCTCTGTGCTCCTGGGGAATACTGGCCATGCCTGGAGACAT
ATCACTCAATTTCTCTGAGGACACAGATAGGATGGGGTGTCTGTGTTATTTGTGGGGTACAGAGATGAAAGAGGG
GTGGGATCCACACTGAGAGAGTGGAGAGTGACATGTGCTGGACACTGTCCATGAAGCACTGAGCAGAAGCTGGAG
GCACAACGCACCAGACACTCACAGCAAGGATGGAGCTGAAAACATAACCCACTCTGTCCTGGAGGCACTGGGAAG
CCTAGAGAAGGCTGTGAGCCAAGGAGGGAGGGTCTTCCTTTGGCATGGGATGGGGATGAAGTAAGGAGAGGGACT
GGACCCCTGGAAGCTGATTCACTATGGGGGAGGTGATTGAAGTCCTCCAGACAACCCTCAGATTTGATGATT
TCCTAGTAGAACTCACAGAAATAAAGAGCTGTTATACTGTG

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FIGURE 5591

MWVPVVFLLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAH CIRNKS VILL
GRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHDLM LRLSEPAELTDAVKVMDLPTQEPALGT
TCYASGWGSIEPEEF LTPKKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG
ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

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FIGURE 5592

GGCGGACAAAACCCGATTGTTCCCTGGGCCCTTTCCCCATCGCGCCTGGGCCTGCTCCCCAGCCCGGGGCAGGGGC
GGGGGCCAGTGTGGTGACACACGCTGTAGCTGTCTCCCGGCTGGCTGGCTCGCTCTCTCTGGGGACACAGAGG
TCGGCAGGCAGCACACAGAGGGACCTACGGGCAGCTGTTCCCTTCCCCCGACTCAAGAATCCCCGGAGGCCCGGAG
GCCTGCAGCAGGAGCGGCCATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCA
GAATAAGTTGGTGCATGGCGGACCCTGCGACAAGACATCTCACCCCTACCAAGCTGCCCTCTACACCTCGGGCCA
CTTGCTCTGTGGTGGGGTCCTTATCCATCCACTGTGGGTCCCTCACAGCTGCCCACTGCAAAAAACCGAATCTTCA
GGTCTTCTGGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCCCAGGAGCAGAGTTCTGTTGTCCGGGCTGTGAT
CCACCCTGACTATGATGCCGCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCAGCGCCAGCCAAACTCTC
TGAACCTCATCCAGCCCCCTTCCCCTGGAGAGGGACTGCTCAGCCAACACCACCAGCTGCCACATCCTGGGCTGGGG
CAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGTGTCCCGTGAGGAGTGTGA
GCATGCCTACCCTGGCCAGATCACCCAGAACATGTTGTGTGCTGGGGATGAGAAGTACGGGAAGGATTCTGCCA
GGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTCATGGGGTAACATCCCCTGTGG
ATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAACTGGATCCAAAAAACCATTTCAGGCCAA
GTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCCACTGGCTGGTTCCAGAACGTCTCTCACCTAGAC
CTTGCTTCCCCTCCTCTCCTGCCAGCTCTGACCCTGATGCTTAATAAACGCAGCGACGTGAGGGTCCTGATTCT
CCCTGGTTTTTACCCAGCTCCATCCTTGCACTACTGGGGAGGACGTGATGAGTGAGGACTTGGGTCTCGGTCTT
ACCCCAACCACTAAGAGAATACAGGAAAATCCCTTCTAGGCATCTCCTCTCCCCAACCCCTTCCACACGTTTGATT
TCTTCTGCAGAGGCCAGCCACGTGTCTGGAATCCCAGCTCCGCTGCTTACTGTCCGGTGTCCCCTTGGGATGTA
CCTTTCTTCACTGCAGATTTCTCACCTGTAAGATGAAGATAAGGATGATACAGTCTCCATAAGGCAGTGGCTGTT
GGAAAGATTTAAGGTTTCACACCTATGACATACATGGAATAGCACCTGGGCCACCATGCACTCAATAAAGAATGA
ATTTT

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FIGURE 5593

CACCCTGTAAGTGGCTGCGGCGGGAAGATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTCATCGCCGTCAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTTCGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGCAGGTGGCTCGGGTCCCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATTT
CTTGA CTGGCCACAGGGCACATTTCGCCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC
GATGGGGGCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGAGCCCCCTCCCAGAGATGGCAATAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAAAA

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FIGURE 5594

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGHVEVPPAEAEERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWPQGTFA
SQVTLEGDKLKVEREIDGGLETLRKLPAVVTADLRLNEPRYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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FIGURE 5595

GTCCCGCCACACCGCCCGTCCCGCTTAGCCACCTGGCCCCGCCACTACCGCATCAGCCTTGCCCCACCCTTT
CAGGGTTCCCAAATCTGGCCAGTCTTTCTGCCCTTTCCCTTGCGGTCTTCCCTTGTCATACCCGTTTCCTGGGG
ATCGCTACGGACCTTAAATACCAGCAACAGCCCCTTCGCCCCAAGACCATGTAGACAACCCCACTCAGGTCGTG
TTCCTGCTTAAACCCCTTACTGACCTCTGCTTCGGCCCTGCGCCAAGTCGAGTCCTCACTCGGGAGGAGGAGGCA
CTGCAGACAGACAGTGGGGAGAAGGTGAAAGAGTTGGAGCCGCAGCCGACAGAGCTACGTGGTGCTGGGACTGAA
AGAGAGGGAGAGAGGGCAGTGGGTGACAAGCAGAGTAGAGGGAGAACCACAGCAGGGAGGAAGCCTAGGGAGTTG
GGGGTGCTAGAGAGTGGGAACAAAGGAGGTGTAACAGATTTGACTTGTAAGAATTAATTATATTGACTGAGAGA
GAAGCCCAGAAGAGGAAGAAGAGGAAAGAAAGGAGTCAGGGATGGCTCTTACACAGGGACCTTTGACATTTCAGG
GATGTAGCCATAGAATTTCTCTCAGGAGGAGTGGAAATCCCTGGACCCTGTGCAGAAAGCTTTGTACTGGGATGTG
ATGTTGGAGAACTACAGGAACCTGGTCTTCTGGGTATCCTTCCTAAATGTATGACCAAGGAATTACCACCAATA
GGGAACAGTAATACAGGAGAAAAATGCCAACAGTGACGCTGGAAAGACATGAATGTTATGATGTTGAAAATTTT
TACTTAAGGGAAATCCAGAAAAATCTACAGGACCTTGAGTTTCAATGGAAAGATGGTGAAATAAATTATAAGAA
GTGCCAATGACCTATAAAAAACAATCTTAATGGTAAAAGAGGTCAACATAGTCAAGAGGATGTAGAAAACAAATGT
ATTGAAAATCAGCTTACATTAAGCTTTCAGTCACGCTCTGACTGAACTGCAGAAATTTCAAAGTGAAGGGAAAATT
TATGAGTGTAACCAATCTGAGAAGACAGTTAATAACAGTTCCTAGTTTCACCACCTCAAAGAATTTCTTCCTAGT
GTCCAAACCAACATTTCTAAAAAATATGAGAATGAGTTTTTGCAGCTGTCAATTACCCACCCAACTTGAGAAAACA
CACATTAGGGAAAAACCTTATATGTGTAAAGGGTGTGGCAAAGCCTTTAGAGTGTCTTCAAGTCTTATTAACCAT
CAGATGGTACATACTACAGAGAAACCTTACAAATGCAATGAATGTGGCAAAGCCTTTCATCGGGGCTCACTACTA
ACTATACATCAGATAGTCCATACAAGGGGGAAGCCATATCAATGTGGTGTATGTGGCAAGATCTTCAGACAAAAT
TCAGATCTTGTAATCACCAGGAGAAGTCACACTGGAGAGAAACCGTACAAATGTAATGAATGTGGCAAGTCTTTT
AGTCAAAGTTATAACCTTGCAATACATCAGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAGTGTGGG
AAAACCTTCAAACAAGGCTCATGCCTCACTACACATCAGATAATCCATACAGGAGAGAAACCATATCAATGTGAT
ATATGTGGCAAGGTCTTCAGGCAGAATTTCTAATCTTGTAATCACCAGAGAATCCACACTGGAGAGAAACCATAC
AAATGCAACATATGTGGAAAGTCTTTAGTCAAAGTTCCAACCTGGCAACTCATCAGACAGTTCATAGTGGAAC
AAACCTTACAAATGTGATGAGTGTGGCAAACCTTTAAACGGAGCTCCAGCCTCACTACACATCAGATAATCCAT
ACAGGAGAGAAACCATATACATGTGATGTATGCGACAAGGTCTTCAGTCAACGTTCAAACTTGCAAGGCACCAG
AGAAGTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGCAAGGTCTTCAGTCAGACTTCACATCTTG
GGGCATCGGAGAATTCATACTGGAGAGAAACCTTACAAATGTGATAAATGTGGTAAAGCCTTTAAACAGGGCTCA
TTACTCACTCGACATAAGATAATTCATACCAGAGAGAAACGTTACCAATGCGGTGAATGTGGAAAGGTCTTTAGT
GAAAATTCATGCCTTGTAAGACATTTAAGAATTCATACTGGGGAGCAACCTTACAAATGTAATGTGTGTGGCAAG
GTCTTCAATTACAGTGGAACCTTTCAATTCATAAGAGAATACATACGGGAGAGAAACCTTTCCAATGTAATGAA
TGTGGCACAGTCTTCAGGAACCTTCAATGACAGTGGAACCTTTCAAATCATAAGAGAATTCATACTGGAGAGAA
CCGTTTCAATGTAACGAATGCGGCAAGGTTTTAGTTACTACTCATGCCTAGCACGTATCGGAAAATTCATACC
GGAGAGAAACCTTACAAATGTAATGATTGTGGCAAAGCCTATACTCAGCGTTCAAGCCTCACTAAACATCTGATA
ATTCATACTGGAGAGAAACCTTACAATTGTAATGAGTTTGAGGGGCATTTATCCAAAGTTCAAACCTTGCAAGA
TATCACAGAAATCCTACTGGGGAGAAACCACACAAATGTAGCCATTGTGGTAGAACTTTTAGTCATATAACAGGC
CTGACGTACCATCAGAGAAGGCATACTGGAGAGATGCCATACAAATGTATTGAATGTGGCCAGGTCTTTAATTCC
ACTTCGAACCTTGCAAGGCATCGGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAATGTGGCAAGGTC
TTTCGTATCAATCAACACTAGCACGTATCGGAGTATTCATACTGGAGAGAAACCTTACGTGTGTAATGAGTGT
GGCAAAGCCTTTAGAGTGCCTTCAATCTGGTTAATCATCAGAAAATGCATACTGGGGACAAACCTTACAAATGT
AATGAATGTGGTAAAGCTTTTATTGAAAGGTCAAAGCTGGTGTACCATCAAAGAAATCACACTGGAGAGAAGCCA
TACAAATGTATTGAATGTGGCAAGGCCTTTGGGCGGTTTTCTTGCTCAACAAACACCAAATGATTCTGGA
GAAAACCTTATAAATGTAATGAGTGTGGCAAATCTTTCATTAGTCGCTCAGGCCTCACTAAACATCAGACAAAA
CATACTGCAGAGAGTCTTAAAAACAAATTCATGTGGAAAAGCCTTTAGATGTTCTCCTAACTTCTGGTCTTTAC
CAAATTCATACTGGAGAGAAACCTTACAAATGTAATCAGTGTGGTAAATTTAA

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FIGURE 5596

MPYKCIECGQVFNSTSNLARHRRRIHTGEKPYKCNECGKVFRHQSTLARHRSIHTGEKPYVCNECGKAFRVRSILV
NHQKMHTGDKPYKCNECGKAFIERSKLVYHQRNHTGEKPYKCIECGKAFGRFSCLNKHQMIHSGEKPYKCNECGK
SFISRSGLTQKHQTKHTAESLTKTFNVEKPLDVLLTSGFK

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FIGURE 5597

AGCACAGCGCTGGCCGCAGTCTGACAGGAAAGGGACGGAGCCAAGATGGCGGCGGCCGACGGCGACGACTCGCTG
TACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGGACGTTTCTGCTTTCGCTTCAACAGCATCAAGAAGCTG
TCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCTTACAGATACCATCTAT
GATGAAGATGAGGTCTCTGCTGCGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCTGGTGGGAGGCCAGAGTAC
GTGCACTGCCTGCTGCCACCGCTGGAGTCGCTGGCCACAGTGGAGGAGACAGTGGTGGGGACAAGGCAGTGGAG
TCCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTG
GCGGGCGGCGACTGGTTCACCTCCCGCACCTCGGCCCTGCGGCCCTCTTCTCCGTCTGCTACCCCCGAGTGTCCAGT
GCTGTGAAGGCGGAACCTTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCCATGGTGGCGGCGGGCCGCA
GCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCCATGTTCTCC
AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGGCGGTGGAGGCGTGGCTGAACATCGCCAGCTTCTG
CCCCAGGAGGATCTGGAGGCCCTGGTGATGCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTGGCGCGTCCGC
TACATGGTGGCTGACAAGTTTACAGAGCTCCAGAAAGCAGTGGGGCCTGAGATCACCAAGACAGACCTGGTCCCT
GCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGCGAGCCTCCCAAGGTCAAAGAGTTCTGT
GAAAACCTCTCAGCTGACTGTGCGGAGAATGTGATCATGTCCAGATCTTGCCCTGCATCAAGGAGCTGGTGTCC
GATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATGGGTCTCTCTCCCATCTTGGGCAAAGACAAC
ACCATCGAGCACCTCTTGCCCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCCTGAGGTACGGCTGAACATCATC
TCTAACCTGGACTGTGTGAACGAGGTGATTGGCATCCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATTGTGGAG
CTGGCTGAGGACGCCAAGTGGCGGGTGGGCTGGCCATCATTGAGTACATGCCCCCTCTGGCTGGACAGCTGGGA
GTGGAGTTCTTTGATGAGAACTTAACCTCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAG
GCAGCCACCAGCAACCTGAAGAAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGGCCATGCCACAATCATCCCCAAG
GTCTTGGCCATGTCCGGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAG
GTCTGTGGGCGAGGACATCACCACCAAGCACATGCTACCCACGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAAT
GTCCGCTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGCCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTC
AAGCCCATCCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCAGGAGGCTCTGACTGTT
CTGTCTCTCGCCTGATGCTGGAAGAGGAGCAAACACTGGCCTCTGGTGTCCACCCTCCAACCCCCACAAGTCCCT
CTTTGGGGAGACACTGGGGGGCCTTTGGCTGTCACTCCCTGTGCATGGTCTGACCCAGGCCCTTCCCCCAGCA
CGGTTCTCTCTCTCCCCAGCCTGGGAAGATGTCTCACTGTCCACCTCCCAACGGGCTAGGGGAGCACGGGGTTGG
ACAGGACAGTGACCTTGGGAGGAAGGGGCTACTCCGCC

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FIGURE 5598

GCAAGACCTTCAGTCAAACGTCATACCTTGTGTACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTG
AAGAATGTGACAAAGCTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGAAAATTCATACTGGAGAGAAACCTT
ACAAGTGTAATGAATGCAGCAGGACCTTTAGTCGGAAGTCATCCCTTACACGCCATCGTAGACTTCATACTGGAG
AGAAAACCTTATAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGATGTCATCCCTTGTATACCATCGTAGACTTC
ATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCGAACCTTGAAAGACATA
GGAGAATTCATACTGGAGAGAAACCTTACAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGACATCATCCCTTG
TATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAAT
CAAACCTTGAAAGACATAGGATAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAATGTGGCAAGACCTTTA
GTCGGAAGTCATCCCTTACACGCCATTGTAGACTTCATACTGGAGAGAAACCTTACCAGTGTAATGAGTGTGGCA
AAGCCTTTCGTGGGCAGTCAGCACTTATTTACCATCAAGCAATCCATGGTATAGGGAACTTTACAAATGTAATG
ATTGTCACCAAGTCTTTAGTAATGCTACAACCATTGCAAATCATTGGAGAATCCATAATGAAGAGAGATCGTACA
AGTGAATAGATGTGGCAAATTTTTAGACATCGTTTCATACCTTGCAGTTCATTGGCGAACTCATAGTGGAGAGA
AACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCAAACCTTCAAAGACATAGGAGAATTCATA
CTGGAGAGAAACCTTACAGGTGTAATGAATGTGGCAAGACCTTTAGTCGGAAGTCATACCTTACATGCCATCGTA
GACTTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAGACCTTCGGTCGAAAATTCAGCCCTTATAA
TTCACAAGGCAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAGGCCTTCAGTCAGAAAGTCAT
CCCTTACATGCCATCTTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGACAAAGTTTTAGTC
GCAAAATCAAGCCTTGAAAAACACAGGAGAATTCATACTGGAGAGAAACCATACAAATGTAAAGGTTTGTGACAAAG
CTTTTGGGCGTGATTACACCTGGCACAACATACTAGAATTCACACTGGAGAGAAACCTTACAAGTGTAATGAAT
GTGGCAAGAACTTCCGTCACAATTCAGCCCTTGTAATTCATAAGGCAATTCATAGTGGAGAGAAACCTTACAAGT
GTAATGAGTGTGGCAAGACCTTCCGTCACAATTCAGCCCTTGAAATTCATAAGGCAATTCATACTGGAGAGAAAC
CTTACAAGTGTAATGTGGCAAGGTTTTTAATAGAAAAGCAAACCTTTCACGTCATCATAGACTTCATACTG
GAGAGAAACCTTACAAGTGTAATAATGTGGTAAGGTTTTTAATCAACAAGCACACCTTGCATGTCATCATAGAA
TTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAAACCTTCCGTCACAATTCAGTCCTTGTAATTC
ATAAGACAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAATGTGGCAAGGTTTTTAATCGAAAAGCAAAC
TTGCACGTCATCATAGAAATTCATACTGGAAAGAAACATTAGAAATATGAAGAATGTGACAAAGTTTACAGTTGTA
AATCAAGTCTTGAAAGACAGGAGAATTCATACTGGAGAGAAAGCTTACAAATGTAAGAGTTTGTGACAAGAATCT
TGGGCGTGATTACACCTGGCCCAACAACTAGAAGTCACACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGG
CAAAGCCTTTAGTGGGCAGTCAACACTTATTCACCATCAGGCAATCCATGGTATAGGGAACTTTACTAATGTAA
TGATTATCACAAAGTCTTCAGTAACACTACAACCGTTTTCAAATCATTGGAGAATCCATAATGAGAGATTTTGAAA
GTGTAATAAATGTGGCAAATTTTTAGACATTGTTTCATACCTTGCAGTTTCATCGGTGAACCTCATGCTGGAGAGAA
ACCTTACAAATGTCATGATTGTGGCAAGGTCTTCAGTCTAGCTTCATCTTATGCAAAACAGGAGACTTCATACAG
GAGACAACTTCACAAGTATGATGATTGCAGCAAAGCCTTTACTTCACGTTACACCTAATTAGACATCAGAGAA
TCCATACTGGACAGAAATCTTACAATGTCATCAGTGTGGCAAGGTCTTCAGTCTGAGATCACCCCTTAAGGAAC
ATCAGAAAATTCATTTTTGAGATGATTGTTCCAAATGCAATGAGTATAGCAAACCATCAAGCATTAATTGGCATT
AGAGTCAATTCAGCATTGACTTGAGTTTGAATTGACTTAACATTGAGTTCAAGCATTAATTGACATTAAAGTGTT
TATGTTAAGAAGATTGGGCCAGGCGGGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGACCAATAG
ATCACTTGAGGTCAGGAGTTTGAGACCAGACTGGCCAACAGACATGAGTCACTTTTCCCACCCTGTATTTGTTT
CTTTAATAAAAACTGTTACGGGTT

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FIGURE 5599

MSSLVYHRRRLHTGEKPYKCEECDEAFSFKSNLERHRRRIHTGEKPYKCNDGKTFSTSSLVYHRRRLHTGEKPYKC
EECDEAFSFKSNLERHRIIHTGEKLYKCNECGKTFSRKSSLTRHCLRLHTGEKPYQCNECGKAFRGQSALIYHQAI
HGIGKLYKCNDCHQVFSNATTIANHWRIHNEERSYKCNRCGKFFRHRSYLAVHWRTHSGEKPYKCEECDEAFSFK
SNLQRHRRRIHTGEKPYRCNECGKTFSRKSYLTCHRRRLHTGEKPYKCNECGKTFGRNSALI IHKAIHTGEKPYKCN
ECGKAFSQKSSLTCHLRLHTGEKPYKCEECDKVFSRKSSLEKHRRRIHTGEKPYCKVCDKAFGSDSHLAQHTRI
TGEKPYKCNECGKNFRHNSALVIHKAIHSGEKPYKCNECGKTFRHNSALEIHKAIHTGEKPYKCSECGKVFNRKA
NLSRHHRLHTGEKPYKCNKCGKVFNQQAHLACHHRIHTGEKPYKCNECGKTFRHNSVLVIHKTIHTGEKPYKCNE
CGKVFNRKAKLARHHRIHTGKKH

6066/6881
FIGURE 5600

AGAAACAGTGGTGCGCGGAGAGGAGAGGCCTCGGGATGTCCTCTGGCAGATGAGCTCTTAGCTGATCTCGAAGAGG
CAGCAGAAGAGGAGGAAGGAGGAAGCTATGGGGAGGAAGAAGAGGAGCCAGCGATCGAGGATGTGCAGGAGGAGA
CACAGCTGGATCTTTCCGGGGATTTCAGTCAAGACCATCGCCAAGCTATGGGATAGTAAGATGTTTGCTGAGATT
TGATGAAGATTGAGGAGTATATCAGCAAGCAAGCCAAAGCTTCAGAAGTGATGGGACCAGTGGAGGCCGCGCCTG
AATACCGCGTCATCGTGGATGCCAACAACCTGACCGTGGAGATCGAAAACGAGCTGAACATCATCCATAAGTTCA
TCCGGGATAAGTACTCAAAGAGATTCCCTGAACTGGAGTCCTTGGTCCCCAATGCACTGGATTACATCCGCACGG
TCAAGGAGCTGGGCAACAGCCTGGACAAGTGCAAGAACAATGAGAACCTGCAGCAGATCCTCACCAATGCCACCA
TCATGGTCGTCAGCGTCACCGCCTCCACCACCCAGGGGCAGCAGCTGTTCGGAGGAGGAGCTGGAGCGGCTGGAGG
AGGCCTGCGACATGGCGCTGGAGCTGAACGCCTCCAAGCACCGCATCTACGAGTATGTGGAGTCCCGGATGTCCT
TCATCGCACCCAACCTGTCCATCATTATCGGGGCATCCACGGCCGCCAAGATCATGGGTGTGGCCGGCGGCCTGA
CCAACCTCTCCAAGGTGCCCGCCTGCAACATCATGCTGCTCGGGGCCAGCGCAAGACGCTGTTCGGGCTTCTCGT
CTACCTCAGTGCTGCCCCACACCGGTACATCTACCACAGTGACATCGTGAGTCCCTGCCACCGGATCTGCGGC
GGAAAGCGGCCCCGGCTGGTGGCCGCCAAGTGACACTGGCAGCCCGTGTGGACAGTTTCCACGAGAGCACAGAAG
GGAAGGTGGGCTACGAACTGAAGGATGAGATCGAGCGCAAATTCGACAAGTGGCAGGAGCCGCCGCTGTGAAGC
AGGTGAAGCCGCTGCCTGCGCCCTGGATGGACAGCGGAAGAAGCGAGGCGGCCGAGGTACCGCAAGATGAAGG
AGCGGCTGGGGCTGACGGAGATCCGGAAGCAGGCCAACCGTATGAGCTTCGGAGAGATCGAGGAGGACGCCTACC
AGGAGGACCTGGGATTTCAGCCTGGGCCACCTGGGCAAGTCGGGCAGTGGGCGTGTGCGGCAGACACAGGTAAACG
AGGCCACCAAGGCCAGGATCTCCAAGACGCTGCAGCGGACCCTGCAGAAGCAGAGCGTCGTATATGGCGGGAAGT
CCACCATCCGCGACCGCTCCTCGGGCACGGCCTCCAGCGTGGCCTTACCCCCACTCCAGGGCCTGGAGATTGTGA
ACCCACAGGCGGCAGAGAAGAAGGTGGCTGAGGCCAACCAGAAGTATTTCTCCAGCATGGCTGAGTTCCTCAAGG
TCAAGGGCGAGAAGAGTGGCCTTATGTCCACCTGAAATGACTGCGTGTGTCCAAGGTGGCTTCCCACTGAAGGGAC
ACAGAGGTCCAGTCTTCTGAAGGGCTAGGATCGGGTTCTGGCAGGGAGAACCTGCCCTGCCACTGGCCCCATTG
CTGGGACTGCCCAGGGAGGAGGCCTTGGAAGAGTCCGGCCTGGCTTCCCCCAGGACCGAGATCACCGCCAGTAT
GGGCTAGAGCAGGTCTTCATCATGCCTTGTCTTTTTTAAGTGAAGAAAGGAGATTTTTTGAAAAGAGTACAATTAA
AAGGACATTGTCAAGAAAAAAAAAAAAAAAAAAAAA

6067/6881
FIGURE 5601

MSLADELLADLEEAEEEEEGGSYGEEEEPAIEDVQEETQLDLSGDSVKTI AKLWDSKMFAEIMMKIEEYISKQA
KASEVMGPVEAAPEYRVIVDANNLTVEIENELNIIHKFIRDKYSKRFPESLVPNALDYIRTVKELGNSLDKCK
NNENLQQILTNATIMVSVTASTTQGQQLSEEEERLEEACDMALELNASKHRIY EYVESRMSFIAPNLSIIIGA
STAAKIMGVAGGLTNLSKVPACNIMLLGAQRKTL SGFSSTSVLPHTGYIYHSDIVQSLPPDLRRKAARLVAAKCT
LAARVDSFHSTEGKVG YELKDEIERKF D KWQEP PPVKQVKPLPAPLDGQRKKRGRRYRKMKERLGLTEIRKQA
NRMSFGEIEEDAYQEDLGFSLGHLGKSGSGRVRQTQVNEATKARISKTLQRTLQKQSVVYGGKSTIRDRSSGTAS
SVAFTPLQGLEIVNPQAAEKKVAEANQKYFSSMAEFLKVKGEKSGLMST

6068/6881
FIGURE 5602

GTTCTCGACTATTGCCGAAGTGAGCCGAAGTTTGTGGCCCCGCTTCCGGAGAACTCAAGCTCCCGATTGTGCCCG
AAGGAACCCGAAGGGAGACCCCGCCTCATTCCCTACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCT
GTTCCCTTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCAGAGCCCGAAGGCCCGCCCTTCACGTA CTGGAG
CTCGGATCCCACTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTT
CCCTGCCCGCCCGGGGCCCTGACCGTGGCTTCTTCCCGGCCCTGATCTGCGCAGCCCGCGGGCGCCAGAAGGA
GCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCG
GCCGCTCCTGCCGGCGAGCAGCTCAGACCATGTGCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTC
CATCCCCATCGGCTTCTCTTTAAGAAAGCCGGTCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCTGGG
GCTCACCTGTTCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTCA
GGCCAGCCCTGCTCCTGCCACGCCCTGGCTCTGGCTGGACTTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAG
CCTCCTGGGCTGCCACTCCACGCCCTTACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCT
GGCCAGTGAAGTCCAGGACCTGCATCTGGCCAGAGGAAGGAAATGGCCTCAGGCTTCAGCAAGGGGCCACCT
GGGGCTGCTGCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGG
CCCGTTCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCGGGGCGAGTGCCAGCCTGCGGCC
CCTGCTGCGCCGCGCTGGCCGGCCCCGCTCTTCGGCTGCTGTTCTGCTCTCCTCTCACCTCTTCCCGCTGGA
GGCCGTGCGCGAGGACGCTTCTACGCCCCGCCGCTGCCCGCCCCGCTCTTCTACATGATCCCCGCTTCTTTCGC
CTTCCGCATGCGCTTCTACGTGGCTGGATTGCCGCCGAGTGCGGCTGCATTGCCGCCGGCTTTGGGGCCTACCC
CGTGGCCGCCAAAGCCCGGGCCGGAGGCGGCCCCACCCTCCAATGCCACCCCCCAGCAGTCCGGAGAAGGCGGC
TTCTTGGAGTATGACTATGAGACCATCCGCAACATCGACTGCTACAGCACAGATTTCTGCGTGCGGGTGCGCGA
TGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCAGTATATCTACAAGAGCGCACCTGCCCGTTC
CTATGTCTGCGGAGCGCTGGACCATGCTGCTGAGCGCCTACTGGCACGGCCTCCACCCGGGCTACTACCTGAG
CTTCTGACCATCCCGCTGTGCCTGGCTGCCGAGGGCCGGCTGGAGTCAGCCCTGCGGGGGCGGCTGAGCCAGG
GGGCCAGAAGGCCTGGGACTGGGTGCACTGGTTCTTGAAGATGCGCGCCTATGACTACATGTGCATGGGCTTCGT
GCTGCTCTCCTTGGCCGACACCTTCGGTACTGGGCTCCATCTACTTCTGTATCCACTTCTGGCCCTGGCAGC
CCTGGGGCTGGGGCTGGCTTTAGGTGGGGGCGAGCCCGAGCCGGCGGAAGGCAGCATCCAGCCACCAGCCTTGC
CCCAGAGAAGCTCCGGGAGGAGTAAGCTGTACGACGCTCCCTCTGCCAGCTGGTCCCGGAATTCTGTGAACCA
GGCTGCTGTCTCTCCCCAGAAAGAGTCTTACCTTGGAGAGGGTCTGGAGAGAATTTCTCTTCCCCAGCTAA
ATACCCTGCCTGCAACTGAAGCAGACCCGGGGGTGTCTCCCTGCCCTCTGCCAGAGGCCACCTCCACTCCTAC
AAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCTGCTCCAGCTTCTGGGTATCCAGAGAGCACTGCACTT
CCCCAAAACGGAAGGGGCCCTGGGCGAGTGGGTTTTGGGCAAATTCCTTTCTTGCATCCACAATGTGGGGTCG
GAGCTTGGGGGCGAGTCTGGGAGTGGGAAGCCTCTTCTTGTGTCTTTGCTCCACTTTTAGCTCATCGCACCA
ATATTGCAGACTTGAAGGAAGCATAAGCTTCCCATTTACAAAGGGGAACTGAGGTGCGGGTGCGCGGGCCTG
GGGACGGCGCTCCCATGGCTTCCATCTGAGCCACCTCGGGACCCAGCGCTCCTGGCGCCCTCTTCTCATCGCTT
GGCCTATGACAGGTACCGTGTGTAAATCTTTCCAATAAAGTGTTCACAAAG

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FIGURE 5603

CCCGCGCAGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGAAAAC TTATGT
GACCCCGCGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAA
CAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCGGAAC TGCTGACGCTTGA
TGAGAAGGACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGA
GGGCAAGATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGT
CTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAA
GCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCACATCGACTTCTCTCTGCGCTCTCC
CTACGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGAGA
CGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAG
GATCAGCGCTTTA

6070/6881
FIGURE 5604

MPVARSWVCRKTYVTIPRRPFEEKSRLDQELKLIGEYGLRNKREVVRVKFTLAKIRKAARELLTLDEKDPRLFEGN
ALLRRLVRIGVLDEGKMKLDYILGLKIEDFLERRLQTQVFKLGLAKSIHHARVLIRQRHIRVRKQVNVNIPSFIVR
LDSQKHIDFSLRSPYGGGRPGRVKRKNAKKGQGGAGAGDDEED

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FIGURE 5605

CCGAAGGGAGACCCCGCCTCATTCTCACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCTGTTCCCC
TTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCCGAGCCCGAAGGCCCCCCTTCACGTACTCGGAGCTCGGAT
CCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGCC
CGCCCGGGGCCCTGACCGTGGCTTCTTCCCGGCCTGATCTGCGCAGCCCGGCGGGCGCCCAGAAGGAGCAGGCG
GCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCGGCCGCCT
CCTGCCCCGCGAGCAGCTCAGGTCCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGGGCTCACCTGT
TCACCTGTGGCCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTAGGCCAGCCCT
G

6072/6881
FIGURE 5606

LAPPCSEPEGPPLHVLGARIPVWTWTRIPLPTRALGFCSGASSLPARGPDRGFFPGLICAARRAPRRSRRRGAL
GGGGVAGAAAASGLGLLGRLLPGEQLRSWAEEMGSSRCGPGAHPVHLWPPHFAFSGHHPRDLGPHSGPA

6073/6881
FIGURE 5607

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGAAAACTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAACAAACGT
GAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAACCTGCTGACGCTTGATGAGAAG
GACCCACGGCGTCTGTTCGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGAGGGCAAG
ATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGTCTTCAAG
CTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAAGCAGGTG
GTGAACATCCCGTCCTTCATTGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGA
GACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCG

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FIGURE 5608

GGCACGAGGCTCAAGATTCACAGCATCTCAGACGCAGCCTAGGTTCCCATGGACTTGTCATAAGACAAAAGAGGA
CAGCTGTGCTGAGGGGGCAGGGTCTGCAGCCTCCTGGCTGTGCCAGGACCACACCTACCAAGGCCGCACCAGGAT
GTCGGACACCGAGGAGCAGGAATATGAGGAGGAGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAAGAAGA
GGAACGCCCCAAACCAAGCCGCCCGTGGTGCCTCCTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGA
CTTCGATGACATCCACCGCAAGCGCATGGAGAAAAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTGA
GCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTGCCTTGAAGGAGCGCATTGAGCGGCGCCGGTCAGAGAGAGCCGA
GCAACAGCGCTTCAGAACTGAGAAGGAACGCGAACGTCAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGA
GGAAGAGGCCAAGAAGCGGGCAGAGGATGATGCCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCCATTTTGG
CGGCTACCTGGTCAAGGCAGAACAGAAGCGTGGTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTC
CGAGCGTAAGAAGCCTCTGGACATTGACTACATGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTCGGA
CTGGATCCACCAGCTGGAGTCTGAGAAGTTCGACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGT
GCTGTACAACCGCATCAGCCACGCCCAGAAGTTCGGAAGGGGGCAGGGAAGGGCCGCGTTGGAGGCCGCTGGAA
GTGAGGATGCCGCCCCGGACAGTGGCACCTGGGAAGCCTGGGAGTGTTTGTCCCATCGGTAGCTTGAAATAAACG
CTCCCCTCAGACACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5609

MSDTEEQYEEEQPEEEAAEEEEEEEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKRMEKDLELQTLIDVHF
EQRKKEEEELVALKERIERRRSERAEQQRFRTAKERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAF
GGYLVKAEQKRGKRQTGREMKVRILSERKKPLDIDYMGEELREKAQELSDWIHQLESEKFDLMAKLKQQKYEIN
VLYNRISHAQKFRKGAGKGRVGGRWK

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FIGURE 5610A

CGCCCAGCTAATTTTTGTATTTTTGGTAGAGACAGGGTTTTGCCATGTTGCCCAGGCTGGTCTTGAACCTTCTGAC
CTCAAGTGATATGCCTGCCTCAGCCTCCCAAGGGGTACCTCCCCACAGTCCTGGAGCAGACTGTGGCCCCCTCAGG
GCCTTGAGTGGCACGCTGGTGGGGCAGCTCTTGCTCTGGAGCCGTCAGGCACCGTGTGAAAGTTTGGAGGAGGGA
GGCAGGAGGTGAGGTTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG
TGAAGCCGCTGAGAGGCAAAAGGGATGAGTGTTAGCTGCTGTGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCCTGGTGTGGGCC
CTTGTCTTGCCTCACCCCTGTCTCTGCCCTTTCCCTTTCCTGGACAGGGGTCTCTGCAGTTCCCAGAAACCCAG
TGCCCCGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCCCTGCCCCGGCCTCCGACCCGAGCCCCACCCGCTG
TGCTTGCTCCACAGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTG
GGTGCCGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCTGTCAGAGCACCGGCAGCCTCAACCCACTGCTGGCC
AGCTTCTTCAGCAAGGTCATGGGCATCCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTTCTTCGGAAGAAG
GATGACTTCGTGGACCTGCTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCCTGCTCACC
TGTGTGGAGCGGCCCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT
GAGCAGATCCACCCGTCGAAGGATGAGAATCAACATTCCAACGCATCCAGTCCCTGTGTGACATCATCCGCTG
AGCCGGGAGCAGATGATCCAAGTCCAGGACAGCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAG
ACGATTGAGCAGCTCTTAAGCAACATGTTTCAGAGGGGAGCAGAGCCAGTCTGTATCGTCAGTGGGATCCAGGTG
CTGCTGACCCTGCTGGAGCCCAGGAGGCCGAGGTCCGAGTCCGTGACCGTGAACAGCTTCTTCAGCAGTGTGGAT
GGGCAGCTGGAGCTCCTGGCCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGGCGCCTTGACGCCCCCTACGC
CCGCGGCTCAGCTGCTTCCACCAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG
CTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGCCCTGAGCGCCAATGATGCA
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCAACACCATGCTGGACCTCTTCTTCCATTATGTCTTCAAC
AACTTCTTGCTATGCCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT
GAGACGCCCATCCAAACCCCTGTTGTGAAACATCTGCTGCAGCAGTGCCGCTGGTGGAGCGGATCCTGACGTCC
TGGGAGGAGAACGACCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTACCTGACAAGAGTGGCC
GGTGCCCTGGTGCAGAACACGGAGAAGGGGGCCCAATGCAGAGCAGCTGCGGCAGCTGCTGAAGGAGCTGCCCAGC
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGGCCCTGGCGGAGACCAACAAGAAGACATGGTGGACCTG
GTGAACACCCACCACCTACACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTTCCCTGAGGAG
GCTGTGCTGCAGCAGGCCTTCATGGACTTCAGATGCAGCGCATGACCTCTGCCTTCATTGACCATTTCGGCTTC
AATGATGAGGAGTTTGGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCC
CTCAATGCTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT
GATGATGAGGAAGAGGAGGACGAGGAAGAGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCCTGGCAG
GGCAGCCAGCTGGCCAGGGGGGCGCTCTGGGCCAGCCACCTGGTGTCCGGAGTGGAGGCAGCACAGACAGTGAG
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCGTGGAGGGGCCACC
CCTCTGTCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCCAGCTGGACAGCCACCTTTGACCCAGTGCCCTACA
GATGCCCCGACCAGCCCCGAGTCTCCGGGGAGGAAGAGCTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC
AGTGTGCCCCAGGGCCTCCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCGTGACGCCCTGCAGCTCAGGTCTCAG
GACCCACACCCCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCTTGCCAG
GCCTTGGTTAGCATCGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCA
ACCAGAGACCCCTCTACCTCTGTCCCAGCCTCCGGGGGCCACCAGCCCCCCCCAGACCACAGAAGGGGAGAAGAGC
CCAGAGCCCTTGGGGCTTCCCCAAAGCCAGAGTGCCAGGCCCTCACGCCCTCCTCCGATACCCAATGGCTCTGCC
CCGGAAGGGCCTGCATCCTCAGGCTCCCAATAGCTGCTGCTGGTGCAGCGCGGCGGCAATCTTCCGTCTCTCCG
TGGATCTCCCGGGGTGGGGGCAGGGCGGGTCCACGATGGCCCCATTGCCCTCATCACCTGACACCCCCACAT
TCTCTCTCTGGACCCCCAGGAGGCTGGTGCCAGGGAGACAGGCCCAACCCACCCCATTTGCACTGAGAAGAGA
AGTTTTGGAGCGTTGCCTCCTAGATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAACATATAT
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGAAGACACCGAACTGGGCTGGCGGCTCCAAAGCAC
AGCCTTCCCTGTTCCGTCCCAGCGGAGCTGGTGTAGGGGTCCCAAGGTTGCCACCCACGTGCCCAGCTGTCCC
ACGCTGCAGCGCAGACGGCCACGCCACACCCGGCCTTTTAGCTCAGGTCCACCATGGGGGACGGCCAGCGTGG
GTGGGGGTGCCAGAGGGTCCCGAGTGGGGGCGCTGCCTTTGCCAGACCCTGCACTTTCAACCAGGCCAGTCCGG

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FIGURE 5610B

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG
TGACCTTGTCCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCCTTTGTGCCGAGCTTCTATTTATAT
TGCAAATATAAATAAAGGAAGGCAGTTTACG

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FIGURE 5611

MGILINRKTDQLVSFLRKDDFVDLLLQHIGTSAIMDLLLRLLTCVERPQLRQDVVNWLNEEKIVQRLIEQIHPS
KDENQHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEGEQSQSVIVSGIQVLLTLLLE
PRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRPRLSCFHQLLLEPPKLEPLQMTWGMLAPPLG
NTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSSPETPIQN
PVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTKGPNAEQRLRQLLKELPSEQQEQW
EAFVSGPLAETNKKNMVDLVNTHHLHSSDDEDDRLKEFNFPPEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFG
EQEESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQFDDDEEEDEEEAQSGSGESDGEDGAWQGSQLAR
GARLGQPPGVRSGGSTDEDEEEDEEEDEEGIGCAARGGATPLSYSPGPPGPPGPPSWTATFDPVPTDAPTSP
RVSGEEELHTGPPAPQGPLSVPQGLPTQSLASPPARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIG
DLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQTTEGEKSPEPLGLPQSQSAQALTPPPIPNGSAPEGPAS
SGSQ

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FIGURE 5612

GCGGCGCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACCTTCTCCCTCTAACACATTCTTCCCTT
CTTCACAAACGGCCCCATGTCAGACGAAGGCTCAAGGGGGAGCCGCCTGCCCCTGCGCTGCCCCCGGCCTCCCAG
GGTTGCTCTTCAGGGGGCGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCCGGCCCCCA
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACCGCGGCTCTGAAGAGCCAGACCTCTCCAGAACCAGTG
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTCGGCTGCCTTCCGAGGCCAGCGGGAGGAGGTGGAGCAG
ATGAAGAGCTGCCTCCGAGTGTGTACAGCCCATGCCCCCACTGCTGGGGAGGCCGAGCAGGCGGCCGACCAG
CAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCGCAGACTTCTGCCAG
CTGTCTGGCATGCACCTGCTGGTGGGCCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCTGGGTGCCCTGCGTAAGCTG
CTGCGGCTGCTGGACCGCGACGCCCTGCGACACGGTGC GCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA
GAGCAGGAGGCTGGGCTGCTGCAGTTCTCCGCTGGACGGCTTCTCTGTGTTGATGAGGGCCATGCAGCAGCAG
GTGCAGAAGCTCAAGGTCAAATCAGCATTCCTGCTGCAGAACCTGCTGGTGGGCCACCCTGAACACAAAGGGACC
CTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTGGTGC GGACAGAGCACAGCCCCCTCCACGAGCACGTG
CTTGGAGCCCTGTGCAGCCTGGTGACAGACTTTCCGAGGGTGTGCGCGAGTGTGCGGAGCCGGAACCTGGGCCTG
GAGGAGCTCCTCCGCCACCGCTGTCAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA
AAGCTGCTACAGACCTGTTTCTCCAGCCCAGCGGACGACAGCATGGATCGGTGAAAACCAGGTGGCTTCTTGCCCC
CTTCTCCGTGGGAACCCCAGGCCTCTTGCTCCCTCCCCACCTACAAGGCCCTCTCCAAGGGATCGCAGGGCCT
AGGTGCCTGGACCCAGGGTGTGCCAGCCCGTCTCTGTGCAGTCCCTGGAAGGGGCGCTGAGAAAGGCACCAGCTC
CTTGGACCCACCTCCCATGCTCTCACTCTCATCCCCGTTCTCTTGTCCACACAGCTCTTCCAATAAAGGTGTTT
CTCTTCTCCTTCTC

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FIGURE 5613

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCCATGTCTGCGCATCTGCAATGGATGGTCGTGCGG
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTGAAGGCCCCGCAAT
TCCTTCCGCTACAACGGACTGATTCACCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCGTG
GTGGTCATTAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC
TCCTTGAGCCCCCCTGCCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCAAAA

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FIGURE 5614

MSAHLQWMVVRNCSSFLIKRNKQTYSTEPNNLKARNSFRYNGLIHRKTVGVPEAADGKGVVVVIKRRSGQRKPAT
SYVRTTINKNARATLSSIRHMIRKNKYRPDLRMAAIRRASAILRSQKPVMMVKRKRTRPTKSS

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FIGURE 5615

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCCGCTGCTCTTGGAGAAGTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCAGCGGCAGGGCCGAAGCCGGTTCGGGCCCTGGCCAGTGGCACTGAAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCC
TCCTTCCACCGTGACCCCAACCTCTCCTGTCCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGG
GGTCGGGGAGGCTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAAGTTGGAAAAGCA

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FIGURE 5616

MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGKDFPASPP
KGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL
LTEIHGGAGGPPSGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKKTDKKRALLRRL

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FIGURE 5617

AATTCTTTTCAATTCAGAGTTGAGCAAACCTGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGGCCAGGAT
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT
TTTGTTTTCTGGGCTCTTTCTTCCCTTGGCCTCCTGCCTCCCTGTCTTCCCATGTTCTTGTATCTGCTGCTGCCTG
TGTTTTTCTCATTGTGTCTCTGCCTAGCTCCCTCTGCCAGGTTTCTATGTGTCTCTTTCTGTCAAGTGTCTT
CTATTTCTTCTCAGTCCCTTCTCTGCATTTGTTACATCATCTCTTCATCTTAATGTATTAGGCTGGGGCTGTTT
TGGGACTCCAGAGAGTTACTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG
CAGAGGCCAGCCTCTCTCCGTCATCCCTATCTCCCTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT
GTGGCTTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACAGGCTGCTCCAGGAGTAAGGAGCCC
AGTCTTTGCATGCAGTGTTGAAAAAGGTAATGTCCCTCTTGTCTGAGCGAGCACCTGGCACACAGCAGGGACCC
AGGCAGTGGGGCTGTTAGGTTCTTATCTCTCCTGAGCCTTGGGCTTCCGCTATCCTTGGGACGCTCTGGTCTTCT
GGCTTCCCCGGTTCTTCTGCGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGCAGCCTTCGTCGGGAGTCG
CCCCATCTCTCCACGCAATCGGCCCTGTGCCCTTGTCTGCTGCAGCCGGGCACCATGCTGACCTCGTCCTTGAGG
CGCCAGATGAAGAACATCGTCCACAACCTACTCAGAGGCGGAGATCAAGGTTTCAGAGGCCACAGCAATGACCCC
TGGGGCCCATCCAGCTCCCTCATGTCAAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCATG
AGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACGTTTACAAGGCCATGACGCTGATGGAG
TACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGAGCAGTGCAAGGAGAACATGTACGCCGTGCAGACGCTGAAG
GACTTCCAGTACGTGGACCGCGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAAGCTAAGCAGCTGGTGGCC
CTGCTGCGCGACGAGGACCGGCTGCGGGAAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGACC
GCCACGGCCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCGCAGAGCAGCGGG
GAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCCGACCAGGAGGAGCGGATCCGTGCG
GGGGATGACCTGCGGCTGCAGATGGCAATCAGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCGTCCCTC
ATGGACCTTGCTGACGTCTTCACGGCCCCAGCTCCTGCCCCGACCACAGACCCCTGGGGGGGCCAGCACCCATG
GCTGCTGCCGTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGCCCCCTGTCCCTCCAGCTGCTGATCCC
TGGGGAGGTCCAGCCCCACGCCGGCTCTGGGGACCCCTGGAGGCTGCTGCCCTGCAGGACCCCTCAGTTGAC
CCTTGGGGTGGGACCCCAGCCCCCTGCAGCTGGGGAGGGGCCACGCCTGATCCATGGGGAAGTTCCGATGGTGGG
GTCCCGGTCAAGTGGGCCCCAGCCTCCGATCCCTGGACACCGGCCCCGGCCTTCTCAGATCCCTGGGGAGGGTCA
CCTGCCAAGCCCAGCACCAATGGCACAACAGCAGCCGGGGGATTCGACACGGAGCCCGACGAGTTCTCTGACTTT
GACCGACTCCGCACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCCG
GCCCCAAGCCCTGGGGCGTTTGACATGAGTGGGGTCAAGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACCT
GCAGCCACACCAACTCCCACGCCCCCACC CGGAAGACGCCGGAGTCATTCTGGGGCCCAATGCAGCCCTCGTC
GACCTGGACTCGCTGGTGAGCCGGCCGGGCCCCACGCCGCTGGAGCCAAGGCCTCCAACCCCTTCTGCCAGGC
GGAGGCCCAGCCACTGGCCCTTCCGTACCAACCCCTTCCAGCCCGCGCTCCCGCGACGCTCACCTGAACCAG
CTCCGTCTCAGTCTGTGCTCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGGC
CTGCCCCCATGATGCCCCGGGCCCCCGGCCCCAACACTAATCCCTTCTCTCTATATCCAGGGCGGAAGGG
GGCCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTTGTGAGTGCATGTGAAATGG

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FIGURE 5618

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVAFSEIMSMIWKRLNDHGKNWRHVY
KAMTLMEYLIK TGSERVSQQCKENMYAVQTLKDFQYVDRDQGVNVREKAKQLVALLRDEDRLREERAHALKT
KEKLAQTATASSAAVSGSGPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQEERIRRGDDLRLQMAIEESKRETG
GKEESSLMDLADVFTAPAPAPTTPDPWGGPAPMAAAVPTAAPTSDPWGGPPVPPAADPWGGPAPTTPASGDPWRPAA
PAGPSVDPWGGTPAPAAGEGPTPDPWGSSDGGVPVSGPSASDPWTPAPAFSDPWGGSPAKPSTNGTTAAGGFDTE
PDEFSDFDRLRTALPTSGSSAGELELLAGEVPARSPGAFDMSGVRGSLAEAVGSPPPAATPTPTPTTRKTPESFL
GPNAALVDLDSLVSRLPGTPPGAKASNPFLPGGGPATGPSVTNPFQAPPATLTNLRLSPVPPVPGAPPTYIS
PLGGGPGLPPMMPPGPPAPNTNPFL

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FIGURE 5619

GAGGCGAAAGCTGCACAGGGCCCTACGCGGCCGCCTCAGCATGTCGGACTTCGACGAGTTTCGAGCGGCAGCTCAA
CGAGAATAAAACAAGAGCGGGACAAGGAGAACC GG CATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG
CAAACGCCGGAGCCGGAGCCGCGACCGGCGCAACCGGGACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG
CAAACCTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA
GGTCCGTAAATACTGGGACGTGCCACCCCCAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT
GCCCCGTGGTTCGGGAGCCAGATGACCAGACAAGCCCGGCGCCTCTACGTGGGCAACATCCCCTTTGGCATCACTGA
GGAGGCCATGATGGATTTCTTCAACGCCCCAGATGCGCCTGGGGGGGCTGACCCAGGCCCTTGGCAACCCAGTGT
GGCTGTGCAGATTAACCAGGACAAGAATTTTGCCTTTTTTGAGTTCCGCTCAGTGGACGAGACTACCCAGGCTAT
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTCCTGG
CATGTCAGAGAACCCCTCCGTCTATGTGCCTGGGGTTGTGTCCACTGTGGTCCCCGACTCTGCCCAACAAGCTGTT
CATCGGGGGCTTACCCAACTACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGGCCCCCTCAAGGC
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT
GGGAGCCAAGAATGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCCTGCAAGTGCCGGG
CTTGATGAGCTCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCTGTGCCTCATGAACATGGTGTGCCTGA
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGATGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT
CAAGTCCATCGAGATCCCCCGGCCTGTGGACGGCGTCGAGGTGCCCGGCTGCGGAAAGATCTTTGTGGAGTTCAC
CTCTGTGTTTACTGCCAGAAAGCCATGCAGGGCCTGACGGGCGCAAGTTTCGCCAACAGAGTGGTTGTCACAAA
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGGTTAGAGGCGGCTGGGGGAGGGTGGGGGCAGGGCTGG
CTGGGGGCTTCTCCCCACTCCCGCCCCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCA
GACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGAGCGGGGGTTGGGGGGTTGGGGGGTT
AGGGCAGGGAGGGGACTGGGGAAGTGCGCACACAGCCCCACACAGACAACACGCACG

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FIGURE 5620

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSRDRKRRSRSRDRRNRDQRSASRDRRRRSKPLTRGAKEEHGG
LIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTDGLAVTPTPVVVGVSQMTRQARR
LYVGNIPFGITEEAMMDFFNAQMRLGGLTQAPGNPVLAVQINQDKNEAFLEFRSVDETTQAMAFDGIIFQGQSLK
IRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLEPNYLNDDQVKELLTSFGPLKAFNLVKDSATGLSK
GYAFCEYVDINVTDAQIAGLNGMQLGDKLLVQRASVGAKNATLVSPSTINQTPVTLQVPGLMSSQVQMGGHPT
EVLCLMNMVLPEELLDDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLT
GRKFANRVVVTKYCDPDSYHRRDFW

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FIGURE 5621

GGGAAGGCATTTGAGCCATTTTGGGGTGTATAGATGTAGTAAGACGATGGGTTCCGTAGTGGGGAGAGGTGACTA
GACTTCGAGGTGCTAAGTGTAGGAACAGGATGGAAAAGCCCTAGTGAAATGTGGGGAATTGGGTTAGTGGGGCTC
TGGGGAGGTACCTAGAGAGGAAGTGAGGGAGGCCACGGAATATGAAGATGGGGAGGCCCTGCGGCATGTAGTGGG
GACGGAGGGCCAGGAGGCCGATACGGGGGCCGTTGGGGGGGTAGGGGGCGGCAAAGGGAGGGGAAGTAAACTGAA
CTGGGGCTGGGCAACAGGAAAAAAGAAGAAACCACAGATTAGAGAAATCTCGGCGGTCAGGAGGCCCGGGGTCTA
AGATGTAAAGAGGTAAACAGATTTAGGGATTGATTGTCTGCTGGGGTGGGTTGAGAGGAGAAAAGGGAAGAAAAG
TCGGGGGACTACGTCTCAGACCTGACCTGAGTGGTGAGAGGTGGACCCAGGAGGAGTGGCAGGTGGTGGCGGGG
TTTTGCAGAGCTCAGTTGGAGGCCCTCTCCGAGGCAGCTTGATGGAACGTGGGAGAGCCGGGCTGGAGTCACAGT
TTTTATTTTGTAGGGAGGTAGTCAGTGGCGCACAAAGGGTAACAAGCAGTGATAGTGGGGATGCTTTCCATTTT
AGGAAACTTTTCCTAAAAGGAAGTGGCAATTTTAACTAATCTCCCTCCGCCGCTCCCAGCTGCCACTCCAGATG

CTGCTGCTGCCGCCGCGGCCACCCACCCCTCGGTCCTCCTCTCCGGAGGCCATGGACCCACCGCCCCCAAGGCT
CCCCCTTTCCCCAAGGCGGAAGGCCCTCCTCCACTCCTTCTCGGCGGCGGGGCCCCGACCCCCGCGGCTGGGC
CGCCACCTCCTCATCGACGCCAATGGGGTCCCCCTACACATACACGGTGCAGCTGGAGGAGGAGCCCCGGGGCCCCG
CCCCAGCGCGAGGCGCCCCCAGGAGAGCCCGGCCCTCGCAAGGGCTACAGCTGCCCGGAGTGCGCCCGTGTCTTT
GCCAGCCCTCTGCGGCTGCAGAGCCACCGCGTGTGCGCACTCGGACCTCAAGCCCTTCACGTGCGGCGCCTGCGGC
AAGGCCTTCAAGCGCTCCAGCCACCTGTGCGGGCATCGCGCCACGCACCGCGCCCGCGCCGGGCCGCGCACACC
TGCCCGCTCTGCCACGCGCTTCCAGGACGCGCGGAGCTGGCGCAGCACGTGCGCCTCCACTTAAGCTCGAGAC
CCGGCCTGTGCTGCCCTGCCCGTCTCAGGGCCACCAAGTCTGACCCACACAGCGTCACTCACTCCCACACACACC
CCCTGGCTCTGCTGAGGTTACTGCCTTACCCTGGGCCTCAGCCCCACCTTCCAAAGGGAGGAGCATCATTCTTC
CTTACCCCTTTCTAGCTGTGTGATGTAGACCAAAGTCGTTGCCCTCCCTGGGCCTGGGAACCAGTCGGAACGTG
GGTTCCAGTCCAGCTGTGCTGTGTGAGCCTGTGCAAGTGACATGACCTCTCTAAACCTTGGTTTTCTGCTCTCTG
GAGCGGTGAACCGGTGGTTGTCTGCGGGGAAGAGATGATAAAGAGCACGGGCACGGTCTGGTTTCATTTCTGTATC
TACCCCCCTTCCGCCACGCCCCGACCCTTTGCTCAATAAACATTCCGCACTCCAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 5622

MLLLPFRPPHPRSSSPEAMDPPPPKAPFPKAEGPSSTPSSAAGPRPRLGRHLLIDANGVPYTYTVQLEEEPRG
PPQREAPPGEPPGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPFTCGACGKAFKRSSHLSRHRATHRARAGPPH
TCPLCPRRFQDAAELAQHVRH

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FIGURE 5623

CCTTGTCGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG
TTGCCATGGCCCCCAGCCACCTGTCAGTGCGGGAGATGAGGGAAGATGAGAAGCCCCCTGGTGCTGGAGATGCTGA
AGGCCGGCGTGAAGGACACGGAAAACCGCGTGGCCCTCCATGCCTTGACACGGCCGCCGGCCCTGCTCCTCCTGG
CGGCGGCCAGCAGCGGCCTGCGCTTTGTCTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTTCTCTGGCTG
TGGCCGCCGTGAAGCTGGGCCTGCGGGCCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCCCTGGG
TGGCCGTGCGGGGCTCCGGTGACGTGTGTGGGGTCTCTGGCTCTGGCCCCCTGGCACAAATGCAGGGGACGGGGCCC
GGGTACCCGCCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG
CCCGGGCTCGGGCCTGGGCTGGGGGCAATGGGGGAGCCCCGGGGCCCGGCTCGTGGTCCCCGTGGCTGTGGCCGCCT
GGGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG
TGAGGGAATTCAGCAAAGACCTGTGAAGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCCTGGGCCCAGA
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTCAGCAGTGTGAAGTCTGTTGTGTTTGAGCT
TCTCAGAGTGGAAATGACTCCTTTTCTTCTTCTGGCCCTCGGGGGCCTCTCGAGGTCAGCCTCTCCAACCCCTACCT
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA
GAGCTATCTGGGGAGGGGGAGAGGAGGCCGAGCAGAATACACCCAGAGTTAGGGTTTGCCTACTCCGCCTCCCTG
GGACCTGGATTGGGTCAGATGCCTGTCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT
GCCAGGCCTGGCCCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCCTCCAGATCCGTCTGG
TTTTTTACACCGTTTGTTAATAAAGCCTGAAACCGC

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FIGURE 5624

MAPSHLSVREMREDEKPLVLEMLKAGVKDTENRVALHALTRPPALLLLAAASSGLRFVLASFALALLPVFLAVA
AVKLGLRARWGS LPPPGLGGPWVAVRGSGDVCGVLALAPGTNAGD GARVTRLSVSRWHRRRGVGRLLAF AEAR
ARAWAGGMGEPRARLVVPVAVAAWGVGGMLEGCGYQAEGGWGCLGYTLVREFSKDL

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FIGURE 5625

CGGCGGCGGCGACAGGACCGAGGGGCCTTAGTTGGTGGGCAAGTCGGGGATCCCAGAAAGAGAAGCGTGACCCGG
AAGCGGAAACGGGTGTCCGTCCCAGCTCCGGCCTGCCAGTGAGCTTCTACCATCCATGGACCTATTGTTTCGGGCGC
CGGAAGACGCCAGAGGAGCTACTGCGGCAGAACAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAG
CGACAGAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGAT
GCTGTTTCGCATCATGGCAAAGACTTGGTGCGCACCCGGCGTTATGTGCGCAAGTTTGTATTGATGCGGGCCAAC
ATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAACAACCTCGATGGCACAAGCCATGAAGGGTGTCAAC
AAGGCCATGGGCACCATGAACAGACAGCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAG
GCAGAGATCATGGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAA
GAGGAGAGTGATGCTGTGGTGTCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTGGAACCTC
CCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAAAAAAGCAGAGGCCGCAGCCTCAGCCCTAGCTGAT
GCTGATGCAGACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGACTGAGTGCCCTGCCACTCCGAGATAACCAG
TGGATGCCCAGGATCTTTTACCACAACCCCTCTGTAATAAAAGAGATTGACACTAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 5626

MDLLFGRRKTPEELLRQNQRALNRRAMRELDREERQKLETQEKKIADIKKMAKQGQMDAVRIMAKDLVRTRRYVRK
FVLMRANIQAVSLKIQTLKSNNMAQAMKGVTKAMGTMNRQLKLPQIQKIMMEFERQAEIMDMKEEMMNDAIDDA
MGDEEDEEESDAVVSQVLDELGLSLTDELSNLPSTGGSLSVAAGGKAEAAAASALADADADLEERLKNLRRD

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FIGURE 5627

GGCGCGCGGGCGAGCGGTTGTGCTTGTGCTTGTGGCGCGTGGTGCGGGTTTCGGCGGCGGGCTGAGGAAGAAGCGC
GGGCGGCGCCTTCGGGAGGCGAGCAGGCAGCAGTTGGCCGTGCCGTAGCAGCGTCCCGCGCGCGGGCGGGCAGCGG
CCCAGGAGGCGCGTGGCGGGCGCTCGGCCCTCGCGGCGGGCGGGCGGGCAGCGGCCCAGCAGTTGGCGGGCAGCGCG
TCTGCGCCTGCGCGGGCGGGCCCCGCGCCCTCCTCCCCCCTGGGCGCCCCCGGGCGGCGTGTGAATGGCGGCCTC
CGCGGCGGCAGCCTCGGCAGCAGCGGCCCTCGGCCGCCTCTGGCAGCCCCGGGCCCCGGGCGAGGGCTCCGCTGGCGG
CGAAAAGCGCTCCACCGCCCCCTTCGGCCGCAGCCTCGGCCCTCTGCCTCAGCCGCGGCGTCTGTCGCCCGCGGGGGG
CGGCGCCGAGGCGCTGGAGCTGCTGGAGCACTGCGGCGTGTGCAGAGAGCGCCTGCGACCCGAGAGGGAGCCCCG
CCTGCTGCCCTGTTTTGCACTCGGCCTGTAGTGCCTGCTTAGGGCCCCGCGGCCCCCGCGCCGCCAACAGCTCGGG
GGACGGCGGGGGCGGCGGGCGACGGCACCGTGGTGGACTGTCCCGTGTGCAAGCAACAGTGCTTCTCCAAAGACAT
CGTGGAGAATTATTTCAATGCGTGATAGTGGCAGCAAGGCTGCCACCGACGCCCAGGATGCGAACCAAGTGCTGCAC
TAGCTGTGAGGATAATGCCCCAGCCACCAGCTACTGTGTGGAGTGCTCGGAGCCTCTGTGTGAGACCTGTGTAGA
GGCGCACCCAGCGGGTGAAGTACACCAAGGACCATACTGTGCGCTCTACTGGGCCAGCCAAGTCTCGGGATGGTGA
ACGTACTGTCTATTGCAACGTACACAAGCATGAACCCCTTGTGCTGTTTTGTGAGAGCTGTGATACTCTCACCTG
CCGAGACTGCCAGCTCAATGCCCACAAGGACCACCAGTACCAGTTCTTAGAGGATGCAGTGAGGAACCAGCGCAA
GCTCCTGGCCTCACTGGTGAAGCGCCTTGGGGACAAACATGCAACATTGCAGAAGAGCACCAAGGAGGTTTCGCAG
CTCAATCCGCCAGGTGTCTGACGTACAGAAGCGTGTGCAAGTGGATGTCAAGATGGCCATCCTGCAGATCATGAA
GGAGCTGAATAAGCGGGGCCGTGTGCTGGTCAATGATGCCAGAAGGTGACTGAGGGGCGAGCAGGAGCGCCTGGA
GCGGCAGCACTGGACCATGACCAAGATCCAGAAGCACCAGGAGCACATTCTGCGCTTTGCCTCTTGGGCTCTGGA
GAGTGACAACAACACAGCCCTTTTGCTTTCTAAGAAGTTGATCTACTTCCAGCTGCACCGGGCCCTCAAGATGAT
TGTGGATCCCGTGGAGCCACATGGCGAGATGAAGTTTCACTGGGACCTCAATGCCTGGACCAAGAGTGCCGAGGC
CTTTGGCAAGATTGTGGCAGAGCGTCTGGCACTAACTCAACAGGCCCTGCACCCATGGCCCCCTCCAAGAGCCCC
AGGGCCCCCTGAGCAAGCAGGGCTCTGGCAGCAGCCAGCCCATGGAGGTGCAGGAAGGCTATGGCTTTGGGTGAGG
AGATGATCCCTACTCAAGTGCAGAGCCCCATGTGTGAGGTGTGAAACGGTCCCGCTCAGGTGAGGGCGAGGTGAG
CGGCCTTATGCGCAAGGTGCCACGAGTGAGCCTTGAACGCCTGGACCTGGACCTCAGAGCTGACAGCCAGCCACC
CGTCTTCAAGGTCTTCCCAGGCAGTACCCTGAGGACTACAACCTTATTGTTATTGAACGTGCGCTGCCGCTGC
AGCTACCGGCCAGCCAGGGACTGCGCCTGCAGGAACCCCTGGTGCCCCACCCCTGGCTGGCATGGCCATTGTCAA
GGAGGAGGAGACGGAGGCTGCCATTGGAGCCCCCTCCTACTGCCACTGAGGGCCCTGAGACCAAACCTGTGCTTAT
GGCTCTTGCGGAGGGTCTGGTGCTGAGGGTCCCCGCTGGCCTCACCTAGTGGCAGCACCAGCTCAGGGCTGGA
GGTGGTGGCTCCTGAGGGTACCTCAGCCCCAGGTGGTGGCCCCGGAACCCCTGGATGACAGTGCCACCATTTGCCG
TGTCTGCCAGAAGCCAGGCGATCTGTTTATGTGCAACCAGTGTGAGTTTTGTTTCCACCTGGACTGTCACCTGCC
GGCCCTGCAGGATGTACCAGGGGAGGAGTGGAGCTGCTCACTCTGCCATGTGCTCCCTGACCTGAAGGAGGAGGA
TGGCAGCCTCAGCCTGGATGGTGCAGACAGCACTGGCGTGGTGGCCAAGCTCTCACCAGCCAACCAGCGGAAATG
TGAGCGTGTACTGCTGGCCCTATTCTGTACGAACCCCTGCCGCCCCCTGCATCAGCTGGCTACCGACTCCACCTT
CTCCCTGGACAGCCCCGGTGGCACCCCTGGATCTGACCCTGATCCGTGCCCGCCTCCAGGAGAAGTTGTCACCTCC
CTACAGCTCCCCACAGGAGTTTGCCAGGATGTGGGCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAA
GGCAGACGTGCAGTCCATCATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAA
GTTCTCTGCTGTGCTGGTGGAGCCCCCGCGATGAGCCTGCCTGGTGTGGCCTGAGTTCCCAGGAGCTGTCTGG
TGGCCCTGGTGATGGCCCCTGAGGCTGGAGCCCCCATGGCCAGCCCAGCCTGGCTCTGTTCTCTGTCTGTCTGTCACC
CCATCCCCACTCCCCCTGGTGGCCTGACTCCCACTCCCTGGTGGCCCCATCCCCCAGTTCTCAGGATATGGTTTT
TACTTCTGTGGATTTAATAAAAACTTACCAGTTAAAAA

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FIGURE 5628

MAASAAAASAAAASAGSPGPGEGSAGGEKRSTAPSAAASASASAAAASSPAGGGAELELLEHCGVCRERLRPE
REPRLLPCLHSACSACLGPAPAAAANSSGDGGAAGDGTVVDCPVCKQQCFSKDIVENYFMRDSGSKAATDAQDAN
QCCTSCEDNAPATSYCVECSEPLCETCVEAHQVRKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCD
TLTCRDCQLNAHKDHQYQFLEDAVRNQRKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRVQVDVKMAIL
QIMKELNKRGRVLVNDQAQKVTEGQQRERLERQHWTMTKIQKHQEHILRFASWALESDNNTALLLSKKLIYFQLHRA
LKMIIVDPVEPHGEMKFQWDLNAWTKSAEAFGKIVAERP GTNSTGPAPMAPPRAPGPLSKQSGSGSSQPMEVQEGYG
FGSGDDPYSSAEPHVSGVKRSRSGEGEVSGLMRKVPRVSLERLDLDTADSQPPVFKVFPGSTTEDYNLIVIERG
AAAAATGQPGTAPAGTPGAPPLAGMAIVKEEETEAAIGAPPTATEGPETKPVLMAAEGPGAEGPRLASPSGSTS
SGLEVVAPEGTSAPGGGPGTLD DSATICRVCQKPGDLVMCNQCEFCFHLDCPLALQDVPGEWSSCSLCHVLPDL
KEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPLHQLATDSTFSLDQPGGTLDLTLIRARLQEK
LSPPYSSPQEFAQDVGRMFKQFNKLTEDKADVQSIIGLQRFFETRMNEAFGDTKFSAVLVEPPPMSLPGAGLSSQ
ELSGGPGDGP

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FIGURE 5629

ATTTATTTATTGTTCCCTGGTCACTGTCTCTTTGAGGATTGGTATCTCTGCTCCAGAAAAGATGGCAGCCTCTTTC
TTCTCTGATTTTGGTCTTATGTGGTATCTGGAGGAGCTCAAAAAGGAGGAGTTCAGGAAATTTAAAGAACATCTC
AAGCAAATGACTTTGCAGCTTGAAGCTCAAGCAGATTCCCTGGACTGAGGTCAAAAAGCATCCCGGGAAGAACTT
GCAAACCTCTTGATCAAGCACTATGAAGAACAACAAGCTTGGAACATAACCTTAAGAATCTTTCAAAAGATGGAT
AGAAAGGATCTCTGCATGAAGGTCATGAGGGAGAGAACAGGATACACAAAGACCTATCAAGCTCACGCAAAGCAG
AAATTCAGCCGCTTATGGTCCAGCAAGTCTGTCACTGAGATTACCTATACTTTGAGGAGGAAGTCAAGCAAGAA
GAATGTGACCATTTGGACCGCCTTTTGTCTCCCAAGGAAGCTGGGAAACAGCCACGTACAGTGATCATTCAAGGA
CCACAAGGAATTGGAAAAACGACACTCCTGATGAAGCTGATGATGGCCTGGTCCGACAACAAGATCTTTCGGGAT
AGGTTCTGTACACGTTCTATTTCTGCTGCAGAGAAGCTGAGGGAGTTGCCGCCAACGAGTTTGGCTGACTTGATT
TCCAGAGAGTGGCCTGACCCCGCTGCTCCTATAACAGAGATCGTGTCTCAACCGGAGAGACTCTTGTTCTGTCATC
GACAGCTTCCAAGAGCTGCAGGGCGGCTTGAACGAACCCGATTCCGATCTGTGTGGTGAAGTGAAGGAAACGG
CCGGTGCAGGTGCTTCTGAGCAGTTTGTGAGGAAGAAGATGCTCCCGAGGCCTCCCTGCTCATCGCTATCAAA
CCCGTGTGCCCCGAAGGAGCTCCGGGATCAGGTGACGATCTCAGAAATCTACCAGCCCCGGGGATTCAACGAGAGT
GATAGGTTAGTGATTTCTGTGTTTCTTCAAAGACCCGAAAAGAGCCATGGAAGCCTTCAATCTTGTAAGAGAA
AGTGAACAGCTGTTTTCCATATGCCAAATCCCGCTCCTCTGCTGGATCCTGTGTACCAGTCTGAAGCAAGAGATG
CAGAAAGGAAAAGACCTGGCCCTGACCTGCCAGAGCACTACCTCTGTGTACTCCTCTTTCGTCTTTAACTGTTC
ACACCTGAGGGTGCCGAGGGCCCGACTCCGCAAACCCAGCACCAGCTGAAGGCCCTGTGCTCCCTGGCTGCAGAG
GGTATGTGGACAGACACATTTGAGTTTGTGAAGACGACCTCCGGAGAAATGGGGTTGTTGACGCTGACATCCCT
GCGCTGCTGGGCACCAAGATACTTCTGAAGTACGGGGAGCGTGAGAGCTCCTACGTGTTTCTCCACGTGTGTATC
CAGGAGTTCTGTGCCGCTTGTCTATTTGCTCAAGAGCCACCTTGATCATCCTCACCAGCTGTGAGATGTGTA
CAGGAATTGCTAGTTGCCAATTTGAAAAAGCAAGGAGAGCACATTGGATTTTTTTTGGGGTGTCTTCTAACTGGC
CTTTTAAATAAAAAAGGAACAAGAAAACTGGATGCGTTTTTTTGGCTTCCAAGTGTCCCAAGAGATAAAGCAGCAA
ATTCACCAGTGCTGAAGAGCTTAGGGGAGCGTGGCAATCCTCAGGGACAGGTGGATTCCCTGGCGATATTTTAC
TGTCTCTTTGAAATGCAGGATCCTGCCCTTGTGAAGCAGGCAGTGAACCTCCTCCAAGAAGCTAACTTTTCATATT
ATTGACAACGTGGACTTGGTGGTTTCTGCCTACTGCTTAAATACTGCTCCAGCTTGAGGAACTCTGTTTTTCC
GTTCAAATGTCTTTAAGAAAAGAGGATGAACACAGCTCTACGTCCGATTACAGCCTCATCTGTTGGCATCACATC
TGCTCTGTGCTCACCACCAGCGGGCACCTCAGAGAGCTCCAGGTGCAGGACAGCACCCCTCAGCGAGTCGACCTTT
GTGACCTGGTGTAACCAGCTGAGGCATCCAGCTGTGCGCTTCAGAAGCTTGGAATAAATAACGTTTTCTTTCT
GGCCAGAGTGTTCTGCTCTTTGAGGTGCTCTTTTATCAGCCAGACTTGAAATACCTGAGCTTCACCCCTCACGAAA
CTCTCTCGTGATGACATCAGGTCCCTCTGTGATGCCTTGAAGTACCCAGCAGGCAACGTCAAAGAGCTAGCGCTG
GTAAATTGTACCTCTCACCATTGATTGTGAAGTCTTGTGCGCTTCTAACCACAACAAGAAGCTGACGTAT
CTGAATGTATCCTGCAACCAGTTAGACACAGGCGTGCCCTTTTGTGTGAAGCCCTGTGCAGCCAGACACGGTC
CTGGTATACCTGATGTTGGCTTTCTGCCACCTCAGCGAGCAGTGCTGCGAATACATCTCTGAAATGCTTCTGCGT
AACAAGAGCGTGCGCTATCTAGACCTCAGTGCCAATGTCTGAAGGACGAAGGACTGAAAACCTCTCTGCGAGGCC
TTGAAACATCCGGACTGCTGCCCTGGATTCACTGTGTTTGGTAAAATGTTTTTACTGCTGCTGGCTGTGAAGAC
CTCGCCTCTGCTCTCATCAGCAATCAAAAACCTGAAGATTCTGCAAATTGGGTGCAATGAAATCGGAGATGTGGGT
GTGCAGCTGTTGTGTCGGGCTCTGACGCATACGGATTGCCGCTTAGAGATTCTTGGGTTGGAAGAATGTGGGTGA
ACGAGCACCTGCTGTAAGGATCTCGCGTCTGTTCTCACCTGCAGTAAGACCCTGCAGCAGCTCAACCTGACCTTG
AACACCTTGAACACACAGGGGTGGTTGTACTCTGTGAGGCCCTGAGACACCCAGAGTGTGCCCTGCAGGTGCTC
GGGCTGAGAAAAACTGATTTTGATGAGGAAACCCAGGCACTTCTGACGGCTGAGGAAGAGAGAAATCCTAACCTG
ACCATCACAGAGACTGTGACACAATCACAAGGGTAGAGATCTGATTGCGAGGAACCTGGGCTCTGACTCGAACA
CCTGCAAAGGACAGGGACTGGGACCGTTACTTACATGACACTGCACCCAGGAGATACAAATCATTGATACTCTGA
GTTGTGAGATTTCTGGCACCCCATTCATAGATTTGATATGATACACGTGGTTTTTATGTGCTCTGTGGCCTTGG
TGAGTCACTGAAAGGCCTTCATGGTCTCTCGGTCTCACAAGGACCTCTTAACCCCTCAATAAAGTGTTACATTT
TAAACATTGG

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FIGURE 5630

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLIKHYEEQQAWNITLRI
FQKMDRKDLCKMVMRERTGYTKTYQAHAKQKFSRLWSSKSVTEIHLYFEEEVKQEECDHLDRLEFAPKEAGKQPRT
VIIQGPQGIGKTTLLMKLMMAWSDNKIFRDRFLYTFYFCCRELRELPPPTSLADLISREWPDPAAPITEIVSQPER
LLFVIDSFEEELQGGLENEPDSDLCDLMEKRPVQVLLSSLLRKKMLPEASLLIAIKPVCPKELRDQVTISEIYQPR
GFNESDRLVYFCCFFKDPKRAMEAFNLVRESEQLFSICQIPLLCWILCTSLKQEMQKGKDLALTCQSTTSVYSSF
VFNLFTPEGAEGPTPQTQHQLKALCSLAAEGMWTDTTFEFCEDDLRRNGVVDADIPALLGTKILLKYGERESSYVF
LHVCIQEFCAALFYLLKSHLDHHPHAVRCVQELLVANFEKARRAHWIFLGCFLTGLLNKKEQEKLDAFFGFQLSQ
EIKQQIHQCLKSLGERGNPQGQVDSLAIIFYCLFEMQDPAFVKQAVNLLQEANFHIIDNVDLVVSAYCLKYCSSLR
KLCFSVQNVFKKEDEHSSTSDYSLICWHHICSVLTTSGLHRELQVQDSTLSESTFVTWCNQLRHPSCRLQKLGIN
NVSFSGQSVLLFEVLFYQPDLYLSFTLTKLSRDDIRSLCDALNYPAGNVKELALVNCHLSPIDCEVLGGLTNN
KKLTLYLNVSCNQDGTGVPLLCEALCSPDTVLVYLMLAFCHLSEQCEYISEMLLRNKSVMRYLDLSANVLKDEGLK
TLCEALKHPDCCLDSLCLVKCFITAAGCEDLASALISNQNLIKILQIGCNEIGDVGVLQALCRALHTDCRLEILGL
EECGLTSTCCKDLASVLTCSKTLQQLNLTNTLDHTGVVVLCEALRHPECALQVLGLRKTDDEETQALLTAEED
RNPNLITITDDCDTITRVEI

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FIGURE 5631

GTGGGGCGCGGGCAATGGAGCAGAGTATGGGAGAACGCGCTCGGAGTAAAGCACACGGCGCGGGCGAAGGCGTGGC
GGGAGTGTGCGGCGCCGGACCCGGGAAGCTGGCCCTGGGCGCCGGGTCTCGAGTGCAGGCCTTTGTTCTGAAGTGT
CCAGGCCGGCCTTGCGGCGTTCGGGACTGAGGAATGGAGCCCGTTCGCGGGGCGGGGCGGGAAAGGAAGGTTCAAGT
CTCTCGGGTTGATGCGCAAGTTTCCGTCCCCATCGGCCGGACAGATTAGAATCCTTTTCAGGTGCTAGATGGCGGC
TGCAGAGGCTGTGCATCACATACACCTGCAGAACTTCTCACGCTCTCTGCTTGAGACCCTCAATGGGCAGAGGCT
TGGGGGACACTTCTGTGACGTGACTGTGCGCATTCGTGAAGCTTCGCTGCGTGCCCCACCGCTGCGTGCTGGCGGC
CGGCTCACCTTCTTCCAAGACAAGCTGCTGCTCGGCCACTCTGAGATCCGTGTGCCTCCGGTGGTGCCCGCGCA
GACAGTGCAGACAGCTGGTAGAGTTCCGTGTACAGCGGTTTCGCTCGTTGTGGCGCAGGGTGAAGCCCTGCAGGTGCT
CACGGCCGCGTCACTGCTTCGCATACAGACAGTTATCGACGAATGCACGCAGATTATCGCCCGCGCTCGAGCCCC
GGGCACCTCTGCGCCACGCCCCCTGCCACCCCTGTGCCCCCGCCACTCGCACCTGCGCAGCTGCGTCAACGCCT
GCGCCACCTGCTGGCTGCAGTCCCCCGGGGACCCCGGTGCTGCACACAGCCGTAAGCAGCGCCAGCCCGCGCG
TTTGACAGCTGCCAGCGCCCCAACACCTGCCAAGGCTGAGGGGCTGATGCTGACCCCTCACTGTCCGCGGCCCC
TGATGACCGAGGTGACGAGGATGACGAGGAAAGTGACGATGAGACCGATGGCGAGGATGGCGAAGGTGGCGGCCC
AGGCGAGGGCCAGGCACCTCCTTCCCTTCCAGACTGTGCTGCTGGCTTCTCACTGCTGCTGCTGACAGCGCTG
CGAGGAGCCCCCTGCACCCACTGGCCTCGCTGACTACAGTGGTGCCGGGAGAGATTTTCTTCGGGGAGCTGGGTC
AGCTGAGGACGTATTTCCAGACAGCTATGTATCCACTTGGCACGACGAGGATGGCGCTGTCCCCGAAGGCTGTCC
CACTGAGACCCCTGTCCAGCCGACTGCATACTGTCTGGATCCCGCCCGCCTGGTGTGAAGACCCAGGGCCGCC
CGTTGCACTCTTCCCCTTTCACTTGGGTGCCCCTGGGCCACCCGCAACCACCCCTTCAGCACCATCGGGGCCAGC
CCCTGCGCCCCCACCAGCCTTCTACCCACACTCCAGCCCGAGGCAGCCCCCAGTACTCAGCTGGGGGAGGTCCC
GGCTCCCTCTGCTGCTCCACACGGCCCCCTCAGGCACCCCTGCTCGCACCCACGGTGTGAGCCACCTACGTA
TGAGTGCAGCCACTGTGCAAGACGTTTCACTCCCGGAAAACTACACCAAGCACATGTTTATCCACTCGGGGGA
GAAGCCGCACCAGTGCGCCGTGTGCTGGCGATCCTTCTCTCTACGCGACTACCTGCTCAAACACATGGTTCACGCA
CACCGGCGTGCAGCGCCTTCCAGTGCGCCGTCTGCGCCAAGCGCTTCACGCAGAAGAGCTCGCTCAACGTGCACAT
GCGCACTCACCGGCCCGAGCGCGCGCCCTGCCCCGCTGCGGCAAGGTCTTCTCGCACCGCGCGCTGCTGGAGCG
CCACCTGGCGGCGCACCTGCGCCCTGATGGCGCTGGGGCCTGGCCTCGCCACGGTGGATCCGGGGCCTCCCGC
ACAGTCGGCCACGCCCCGCTGCGGGACCCGTGGTTCCCGCCACTAGACCACGCTCCCTCCTGAGCGCAGGTCTCT
CTCTCCCTTACCCCTTTCTCCATACCAGGGCCTAAGTCCGCCTTACTCCTCTCCTCCATGTACTTGAACCCCTCA
GGTGGTGCCGGGCTGGGGCTGGGGCTGGTTAGACCACTTCTGAGAACTGGACTATTTCTGCGTAAACCGGGCGC
TCAGGCGCTTGGACCCGGCCCAAGATTTGACTCCGGTTCTACCCCCCCTCTCCTGGGGTGGTGGTGGGGGCTG
GGGGGCCGCTTGCTGCCCCAGGGTCAGGCTGGGCAAGGTCCCTAGCTCTCTACCCAAGCTGTTACTCCCTCATG
GGGCGCCTAAGGAGACTCAAGTGGACCCATCATATATGGGGGCTGGGCCTCGGGACTCTCGCTCTAATAAAGGAC
TGTAGGCCATGGGGCCTAAACCACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5632

MAAAEAVHHIHLQNF SRSLLET L NGQRLGGHFC DVT VRIREASLRAHRCVLAAGSPFFQDKLLLGHSEIRVPPVV
PAQTVRQLVEFLYSGSLVVAQGEALQVLTAASVLR IQTVIDECTQIIARARAPGTSAPTPLPTPVPPPLAPAQLR
HRLRHLLAARPPGHPGAHSRKQRQPARLQLPAPPTPAKAEGPDADPSLSAAPDDRGDEDEESDDETDGEDGEG
GGPGEGQAPPSFPDCAAGFLTAAADSACEEPPAPTGLADYSGAGRDFLRGAGSAEDVFPDSYVSTWHDGAVPE
GCP TETPVQPDCILSGSRPPGVKTPGPPVALFFH LGAPGPPAPPPSAPSGPAPAPPPAFYPTLQPEAAPSTQLG
EVPAPSAAPT TAPSGTPARTPGAEPPTYEC SHCRKTFSSRKNYTKHMF IHSGEKPHQCAVCWRSFSLRDYLLKHM
VHTGVR AFQCAVCAKRFTQKSSLNVHMRTHRPERAPCPACGKVF SHRALLERHLAAHPAP

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FIGURE 5633

GGCGGCGCGTGGTCTACGCCGAGTGACAGAGACGCTCAGGCTGTGTTCTCAGGATGACCGAGTGGGAGACAGCAG
CACCAGCGGTGGCAGAGACCCAGACATCAAGCTCTTTGGGAAGTGGAGCACCGATGATGTGCAGATCAATGACA
TTTCCTGCAGGATTACATTGCAGTGAAGGAGAAGTATGCCAAGTACCTGCCTCACAGTGCAGGGCGGTATGCCG
CCAAACGCTTCCGCAAAGCTCAGTGTCCATTGTGGAGCGCCTCACTAACTCCATGATGATGCACGGCCGCAACA
ACGGCAAGAAGCTCATGACTGTGCGCATCGTCAAGCATGCCTTCGAGATCATAACCTGCTCACAGGCGAGAACC
CTCTGCAGGTCTGGTGAACGCCATCATCAACAGTGGTCCCCGGGAGGACTCCACACGCATTGGGCGCGCCGGGA
CTGTGAGACGACAGGCTGTGGATGTGTCCCCCTGCGCCGTGTGAACCAGGCCATCTGGCTGCTGTGCACAGGCG
CTCGTGAGGCTGCCTTCCGGAACATTAAGACCATTGCTGAGTGCCTGGCAGATGAGCTCATCAATGCTGCCAAGG
GCTCCTCGAACTCCTATGCCATTAAGAAGAAGGACGAGCTGGAGCGTGTGGCCAAGTCCAACCGCTTGATTTTCCC
AGCTGCTGCCCAATAAACCTGTCTGCCCTTTGGGGCAGTCCCAGCCAAAA

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FIGURE 5634

MTEWETAAPAVAETPDIKLFGKWSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKRFRKAQCPIVERLTNS
MMMHGRNNGKKLMTVRIVKHAFEIIHLLTGENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSPLRRVNQA
IWLLCTGAREAAFRNIKTIAECLADELINAAGSSNSYAIKKKDELERVAKSNR

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FIGURE 5635

CAGAGGTTGTGGTGAGCCGAGATCACAGCACTGCACTCCAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAT
AAATAAATAAAAAATAAAAAATAAACATGATGATCACAGATGCAGTCACATTTTCTGAGTTCTTGTCTCTCTGCCA
GTGCCACCCAGATAGCCTCACAAAACTTTGACCCAGCCACTGTTAGTGTCGCCACCGCCCATAAAGGAGCTGAGC
CCAGCAGGGGCACTGCCTGGGGCCCTGTAGCCAAAAGGCTACAGCAGGAGCTGATGACCCTCATGATGCCTGGTG
ACAAAAGAATTTCTGCCTACCCTGAAAGCCTTATCAAATGGACACCATCCATGAAGCAGCTGGCACAGTGTATGA
AGATCTGAGGTATAAGCTCTTGCTGGAGTTCCTCAATGACTACCCACCTTTACGATGCACCCACAGTGAAGTTCC
TCACACCCTGCTACCACCCTAACGTGGACACCCAGGGTAACATATGCCTGGACATCCTGAAGGAGAAGTGGTCTG
CCCCGTATGATATCAGGACCATCCTGCTCTCTATCCAGTGCCTGCTAGGACAACCTCAACATTGATAGCCCTTTGA
ACACACATGCTACCAAGCTCTGGGAAAACCCCATAGCTTTAAGAAGTACCTGCAAGGGTCAGGCGCAGTGGCTCA
CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATGGATCACCTGACGTAGAGAGTCCAAGGCCTGAC
AAACATGGAGAAAATGTCATCCCTATTTAAAAAATAAAAAAATTAGCCAAG

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FIGURE 5636

GACTCAGGTGAACTAACCTGCGAGAAGCTGGTTGTGCGCTGAGGCGACCAGCGCCGGAAGGCACGGTGGCGACTC
ACGCTGTTCTCGCCGCTCAGAGGCGGGTCTGAGGCTCGGTGGCGGCGCCAGGGTGGCCCCGGGCCCTTTCCTCGG
TCATTGTCTCCCTCCAGCTCTACTCACAGGCTCCGATGGCGGCGGCCCTGAGGGACCCGCTCAGGTTCTCT
GTGGCTGCAGACTTGCTTACAGACCATGAGGAGGGCTATGTGACCTTTGAGGATGTGGCTGTCTACTTCTCCCAG
GAGGAATGGAGATTGCTTGATGACGCTCAGAGGCTCCTCTACCGCAATGTGATGCTGGAGAACTTTACACTTCTG
GCCTCTCTCGGACTTGTCATCTTCCAAGACCCATGAAATAACCCAGCTGGAGTCATGGGAGGAGCCCTTCATGCCT
GCTTGGGAAGTTGTGACTTCAGCCATACCGAGAGGTTGTTGGCATGGAGCCGAGGCTGAGGAGGCTCCTGAGCAG
ATTGCTTCTGTAGGACTGCTCAGTTCAAACATTACAGCAACACCAGAAGCAGCACTGTGGAGAGAAACCCTTAAAA
AGACAACAGGGCAGGGTCCCAAGTTTTGAGGAGTTGCAAAGTTACCTATCAGAGAAGTCCTTGCAAAGCAGGGAG
GTTGGGAAGGCCCTCCTGATCAGCTCAGGTGTTCTCAAGCACCAGGTGACTCACACAGGAGAGAAGTCACATAGG
AGCTCCAAAAGTAGGGAGGCCCTTTCATGCTGGAAAAAGGCATTACAAATGCAGTGAATGTGGGAAAGCCTTTGGT
CAGAAATATTTACTTGTTCAGCACCAGAGACTACATGCTGGGAAAAAGACGTATGAATGCAGTGAATGTGGGAAG
TTATTTAGAGATATGTCCAACCTTTTTATACCAAATAGTTACACTGGAGAAAGCCTTACGGGTGTAGTAAC
TGTGGAAAAATCCTTTAGCCGTAATGCTCACCTCATTGAACACCAGAGAGTTACACTGGAGAAAAAGCCTTTTACA
TGCAGTGAATGTGGAAAAAGCCTTTCAGGCATAATTCCACACTTGTTTCAGCATCACAAAATCCCACTGGAGTAAGG
CCTTATGAGTGCAGTGAATGTGGAAAATTGTTTAGTTTTCAACTCCAGCCTCATGAAACATCAGAGAGTTACACT
GGAGAAAGACCTTATAAGTGCAGTGAATGTGGAAAATTCTATAGCCACAAGTCCAACCTTATCAAACATTGGCGT
GTTCACTACTGGAGAAAGCCTTACAAGTGCAGCGACTGTGGGAAATTTTTTACCCAATGCTCAAGCCTCATGCAA
CATCAAAAAGTTACACTGGAGAAAAGCCTTTTAAGTGCAATGAATGTGGGAGATTCTTTAGAGAGAATTCCACC
CTAGTTAGACATCAGAGGGTTCACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGTGGGAAATTTTTTAGCCAA
AGCTCAACCCTCATGCAACATCGAAAAGTTCACATTGGAGAAAAGCCTTTTAAGTGCAATGAATGTGGGAGATTG
TTTAGAGAGAATTCCAGCCTTGTTAAACATCAGAGGGTTCACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGT
GGGAAGTTTTTTCGCCACAACCTCCAGTCTTTTTAAACATCGAAGGATTACACTGGAGAAAATGCAGTGATTGTGT
GAAATCCTTTAGCCAGCGTTTCAACCTCATTCAACACCAGAAAGTTACAGTGGAAAAAATCTTGAAGGTAACAG
ATGGAAATCCGTTAGCCACACCTCCAGTCTCATTCAACACTGGACAGTTTACAATGTGGACAATGTAGTGAATAT
GGAAAAAGGTTTCAGCCAAAGGCCTAACCTATTCAACACCAGAAAGTTTAGAATGGAGAAAAGCCTTAGGGTGA
CAGGTTATGTACTGTCTCTGAATCAATATGACCTCACTTAAAACAGAACTCTGAGGATGGCCTTTATGAGGGAG
CTGGCAATTGAACATCATTCTAAATATGCACACTGGAGGCAAGATGAGAATTCCTGACAGATTGTCTTCTCT
GAGAAGACAGCCCTCTGCCTTGGAGCTCCAGAGAGAGGGAGCCCTGTATTCTTGGCTGTACCCGTCGAATGGAGT
TTTGATCTCGCTGAGTTTGGAGTTGGGGAGGAAAGGAGTGGTCTTGGTTCAAATGTGACTCACTTTTGTCTGTTT
TTGTGAATGTAGATCTTCTTTAATAAATATTTATTTCCCATACACCCTTATGACCATTAAAAAAAAAAAAAAAA
AA

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FIGURE 5637

MAAAALRDPAPQVPVAADLLTDHEEGYVTFEDVAVYFSQEEWRLDDAQRLLYRNVMLENFTLLASLGLASSKTHE
ITQLESWEEPFMPAWEVVTSAPRGCWHGAEAEAEPEQIASVGLSSNIQQHQKQHCGEKPLKRQQGRVPVLRSC
KVHLSEKSLQSREVGKALLISSGVLKHQVTHTGEKSHRSSKSREAFHAGKRHYKCSECGKAFGQKYLLVQHQR LH
AGKKTIECSECGKLFRDMSNLF IHQIVHTGERPYGCSNCGKSFSRNAHLIEHQRVHTGEKPFTCSECGKA FRHNS
TLVQHHKIHTGVRPYECSECGKLF SFNSSLMKHQRVHTGERPYKCSECGKFYSHKSNLIKHW RVHTGERPYKSD
CGKFFTQCSSLMQHQKVHTGEKPFCNECGRFFRENSTLVRHQRVHTGAKPYECRECGKFFSQSSTLMQHRKVHI
GEKPFKCNECGRLFRENSSLVKHQRVHTGAKPYECRECGKFFRHNSSLFKHRR IHTGEMQ

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FIGURE 5638

GTGCGATCCCGGGCCCGAGGGCATCAGACGGCGGCTGATTAGCTCCGGTTTGCATCACCCGGACCGGGGGATTAG
CTCCGGTTTGCATCACCCGGACCGGGGGCCGGGCGCGCACGAGACTCGCAGCGGAAGTGGAGGCGGCTCCGCGCG
CGTCCGCTGCTAGGACCCGGGCAGGGCTGGAGCTGGGCTGGGATCCCGAGCTCGGCAGCAGCGCAGCGGGCCGGC
CCACCTGCTGGTGCCCTGGAGGCTCTGAGCCCCGGCGGCGCCCGGGCCACGCGGAACGACGGGGCGAGATGCGA
GCCACCCCTCTAGCTGCTCCTGCGGGTTCCCTGTCCAGGAAGAAGCGGTTGGAGTTGGATGACAACTTAGATACC
GAGCGTCCCGTCCAGAAACGAGCTCGAAGTGGGCCCCAGCCCAGACTGCCCCCTGCCTGTTGCCCTGAGCCCA
CCTACTGCTCCAGATCGTGCAACTGCTGTGGCCACTGCCTCCCGTCTTGGGCCCTATGTCCTCCTGGAGCCCGAG
GAGGGCGGGCGGGCCTACCAGGCCCTGCACTGCCCTACAGGCACTGAGTATACCTGCAAGGTGTACCCCGTCCAG
GAAGCCCCGGCCGTGCTGGAGCCCTATGCGCGGCTGCCCCGCAAGCATGTGGCTCGGCCCCACTGAGGTCCTG
GCTGGTACCCAGCTCCTCTACGCCCTTTTCACTCGGACCCATGGGGACATGCACAGCCTGGTGCGAAGCCGCCAC
CGTATCCCTGAGCCTGAGGCTGCCGTGCTCTTCCGCCAGATGGCCACCGCCCTGGCGCACTGTACCAGCACGGT
CTGGTCTGCGTGATCTCAAGCTGTGTGCTTTGTCTTCGCTGACCGTGAGAGGAAGAAGCTGGTGTGAGAAC
CTGGAGGACTCCTGCGTGCTGACTGGGCCAGATGATTCCCTGTGGGACAAGCACGCGTGCCAGCCTACGTGGGA
CCTGAGATACTCAGCTCACGGGCCCTCATACTCGGGCAAGGCAGCCGATGTCTGGAGCCTGGGCGTGGCGCTCTTC
ACCATGCTGGCCGGCCACTACCCCTTCCAGGACTCGGAGCCTGTCTGCTCTTCGGCAAGATCCGCCGCGGGGCC
TACGCCCTTGCTGCAGGCCTCTCGGCCCTGCCCCTGTCTGGTTGCTGCCTCCTTCGTGCGGAGCCAGCTGAA
CGGCTCACAGCCACAGGCATCCTCCTGCACCCCTGGCTGCGACAGGACCCGATGCCCTTAGCCCCAACCCGATCC
CATCTCTGGGAGGCTGCCAGGTGGTCCCTGATGGTCTGGGGCTGGACGAAGCCAGGGAAGAGGAGGGAGACAGA
GAAGTGGTTCTGTATGGCTAGGACCACCCTACTACAGCTCAGCTGCCAACAGTGGATTGAGTTTGGGGGTAGCT
CCAAGCCTTCTCCTGCCTCTGAAGTGAAGCAACCTTCACTGCGCTTCCAGAAGGGAGAAAGGCAGAAGCCTGTGT
GGAGTGTGCTGTGTACACATCTGCTTTGTTCCACACACATGCAGTTCTGCTTGGGTGCTTATCAGGTGCCAAGC
CCTGTTCTCGGTGCTGGGAGTACAGCAGTGAAGAGACAATATTCCTGCTCACAGAGATGACAACTGGC
ATCCTTGAGCTGACAACACTTTTCCATGACCATAGGTCACTGTCTACACTGGGTACACTTTGTACCAGTGTCCGC
CTCCACTGATGCTGGTGTCTCAGGCACCTCTGTCCAAGGACAATCCCTTTCACAAACAAACCAGCTGCCTTTGTAT
CTTGATCCTTTTCAGAGAAAGGGAGGTATCCCTGTGCCAAAGGCTCCAGGCCTCTCCCCTGCAACTCAGGACCCA
AGCCCAGCTCACTCTGGGAAGTGTGTTCCCAGCATCTCTGTCTCTTGATTAAGAGATTCTCCTTCCAGGCCTAA
GCCTGGGATTTGGGCCAGAGATAAGAATCCAACTATGAGGCTAGTTCTTGTCTAACTCAAGACTGTTCTGGAAT
GAGGGTCCAGGCCTGTCAACCATGGGGCTTCTGACCTGAGCACCAAGGTTGAGGGACAGGATTAGGCAGGGTCTG
TCCTGTGGCCACCTGGAAAGTCCCAGGTGGGACTCTTCTGGGGACACTTGGGGTCCACAATCCCAGGTCCATACT
CTAGGTTTTGGATACCATGAGTATGTATGTTTACCTGTGCCTAATAAAGGAGAATTATGAAATAAAAAAAAAA
AAAAAA

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FIGURE 5639

MRATPLAAPAGSLSRKKRLEDDNLDTERPVQKRARSGPQPRLPFCLLPSPPTAPDRATAVATASRLGPYVLE
PEEGGRAYQALHCPTGTEYTCKVYPVQEAPAVLEPYARLPPhKHVARPTEVLAGTQLLYAFFTRTHGDMHSLVRS
RHRIFEPEAAVLFRQMATALAHCHQHGLVLRDLKLCRFVFADRERKKLVLENLEDSCVLTGPDDSLWDKHACPAY
VGPEILSSRASYSKAAADVWSLGVLFMTLAGHYPFQDSEPVLLFGKIRRGAYALPAGLSAPARCLVRCLLRREP
AERLTATGILLHPWLRQDPMPLAPTRSHLWEAAQVVPDGLGLDEAREEEGDREVVLYG

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FIGURE 5640

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTGCGCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCCTCCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACCTTTCTTCCGCCGAAGCCGCTCCCCTTGC
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTTCCCGCTTCTTCCACCTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGCAGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTACACGGGCGAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCTCTGGTCTCCCGCTCTCCAGGCGACCCGGAGGTAGCATTTC
CCAGGAGGCACGGTCCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACCTCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCCACCACTCTTGAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCTGCACTCCCATGGGTGCGGCAGAATGGGGACAGTGCCTACCTCTATCTGCTGTGAGCCCGCAA
CACCTCCCTCAACCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCCGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGGTCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGCCTCGGGTGCACCTTCATCAACAAGCCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCGAGGCCTACCAGGTCCCGCCTCATAACAGCCCGACGAGGA
GGAGCGAGCGCGCCTGGCGGGCGAGGAGGAGGCGCTGCGTCACTACCAGCAGCGGAAGCAGCAGCAGCAGGAGGG
GAACTACCTGCAGCACGTCCAGCTGGACCAGAGGAGCCTGGTGTGTAACACGAGCCCGCGAGTGCCCCGTGTG
CTACTCGGTGCTGGCGCCCGGCGAGGCCGTGGTGTGCTGCGTGAAGTGTCTGCACACCTTCTGCAGGGAGTGCCTGCA
GGGCACCATCCGCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTCATTGACAACACCTACTCGTGTCTGGGCAA
GCTGTGAGAGAGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCAT
TGCTGAAAACCGCAGTGCCTTCAGCTACCATTGCAAGACCCCAGATTGCAAGGGATGGTGTCTTTGAGGATGA
TGTCAATGAGTTACCTGCCCTGTGTGTTTCCACGTCAACTGCCGTCTGCAAGGCCATCCATGAGCAGATGAA
CTGCAAGGAGTATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCT
GAAGGTGATGCTGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTG
CGACTGGATCCGCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGG
CCCAGGAGACACCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCTTGCCACCCAAGCTGTGAGAACTGCCA
CTGAGCTAAAGATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGC
TTCGTGGACGGCCTTGCTTGTGTAGCGTTGTAGGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCC
CCAGTGCCTTTGTCTTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCTGCGGCTCCCACCTCTGCCTGACCC
CAGCCTTAAACATAGCCCCTGCCAGAGGCCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCACCAC
AACACTCATCTGTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTCAGCTGTCAGCTTTCTGGGGCTAACTTCTC
TGCCTTTGTGGTTGGAGGCCTGAGGCCTCTTGGAACCTCTGCTAACCTGTTTCAAGCCAGGAAGGAGACTGCACA
GTTTTGAAAGCACAGCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAA
ATGGTTTTCCGGGAA

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FIGURE 5641

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGORLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQRKQQQQEGNYLQHVQLDQRSVLNTEPAECPVCYSVLAPGEAVVLRECLHTFCRECLQ
GTIRNSQAEVSCPFIDNTYSCSGKLLEREIKALLTPEDYQRFDLGISIAENRSAFSYHCKTPDCKGWCFFEDD
VNEFTCPVCFHVNCLLCKAIHEQMNCKEYQEDLALRAQNDVAARQTTEMLKVMLQQGEAMRCPQCQIVVQKKDGC
DWIRCTVCHTEICWVTKGPRWGPGGPGDTSGGCRCRVNGIPCHPSCQNH

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FIGURE 5642

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCGCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCCTCCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCTTGC
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGGGCGTCCTTTCCCGCTTCTTCCCACCTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGCGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTCAACGGGCAGTGTGATGCTTCCCGACTGCCCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCTCTCCCAGGCGACCCGGAGGTAGCATTTTC
CCAGGAGGCACGGTCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCCACCAGTCTTGACAGTGGGTGATTGGGCAGCGGCTGGCAGGAGA
CCAGGAGACCTGCACTCCCATGGGGTGCGGCAGAATGGGGACAGTGCCTACCTCTATCTGCTGTGAGCCCGCAA
CACCTCCCTCAACCCCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCGGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCCGGGGTCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGCCTCGGGTGCACCTTCATCAACAAGCCACGCG
GCCTGGCTGTGAGATGTGTGCGCGGGCGCGCCCCGAGGCCTACCAGGTCCCCGCTCATACCAGCCCGACGAGGA
GGAGCGAGCGCGCCTGGCGGGCAGGAGGAGGCGCTGCGTCACTACCAGCAGGGAGTGCCTGCAGGGCACCATCC
GCAACAGCCAGGAGGCGGAGGTCTCCTGCCCCCTTCAT**TGACA**ACACCTACTCGTGCTCGGGCAAGCTGCTGGAGA
GGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCATTGCTGAAAACC
GCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGTCTTTTGGAGATGATGTCAATGAGT
TCACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAACTGCAAGGAGT
ATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCTGAAGGTGATGC
TGCAGCAGGGCGAGGCCATGCGCTGCCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTGCGACTGGATCC
GCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCCACGCTGGGGCCCTGGGGGCCAGGAGACA
CCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCTTGCCACCCAAGCTGTCAGAACTGCCACTGAGCTAAAG
ATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGCTTCGTGGACGG
CCTTGCTTGCTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCCCCAGTGCCTTT
GTCCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCCTGCGGCTCCCACCTCTGCCTGACCCACGCTTAAAC
ATAGCCCCTGGCCAGAGGCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCCTCCCACCACAACACTCATCT
GTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTCAGCTGTCAGCTTTCTGGGGCTAACTTCTCTGCCTTTGTGG
TTGGAGGCCTGAGGCTCTTGGAACCTTGCTAACCTGTTTCAGAGCCAGGAAGGAGACTGCACAGTTTTGAAAGC
ACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAATGGTTTTCCG
GGAA

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FIGURE 5643

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQREQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQGVFAGHHPQQPGGGGLLPLH

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FIGURE 5644

GACGATGGGGCTGCGTGCAGGAGGAACGCTGGGCAGGGCCGGCGCGGGTCTGGGGGGCGCCCGAGGGGGCCCGGGCC
GAGCGGCGGGCGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGTCT
CATCCGGCCGCTGCCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGAGCCAGAG
CAGCGTGGCCCCCATCGATGTCTCTGGATCAAAGGGGGCCAGGGAGGTGACTACTTCTACTCCTTTGGGGGCTG
CCACCGCTACGCGGCCTACCAGCAACTGCAGCGAGAGACCATCCCCGCCAAGCTTGTCCAGTCCACTCTCTCAGA
CCTAAGGGTGTACCTGGGAGCATCCACACCAGACTTGCAGTAGCAGCCTCCTTGGCACCTGCTGCCACCTTCAAG
AGCCCAGAAGACACACCTGGCCTCCAGCAGGCTGGGCCATGCAGAAGGGATAGCAGGGGTGCATTCTCTTTGCAC
CTGGCGAGAGGGTCTGACTCTGGGCACCCCTCTCACCAGCTACAAGGCCTTGGACTCACTGTACAGTGTGGGAGC
CCCAGTTCCACCTCTGTGACAAATAGGATCATGGCCTTACCCTTGAAGCATTACCGAGAAGGAGAACAGAGATGG
GCTTGAAGAGCCACGTGCTGCCGGCTCCAAATTCCCAAGGACAAGGATCCCTCTGCATTTTGTCTATGTAACCT
CTTATATGGACTACATTGAGCTGCAAGGAAAGGAAAACCTTGATTGCAGTGGTTTAAACAAACAGAAGATTGTTT
TTCCACATAGCATGGATTCTGGAGATGGGTGGCTAATGGTATTGGTTCAACAACCTCCACGAAGGTAGGGGTCACG
TCTTGGATCCTTTTGCCTTAATCTCAGTGCTCGTTACTTTCATGGTCCCAAGATGGCTGCTGTATCCCCAAGAATC
ATGTCTGCGTTCAAGGAAGGAGGGGTGGAGGAAGAGGAAGGGCCAAACTAGCTGGACCCGTCACCTTCTATCAGA
AAGTAAAACCTCGTCAGAAGTCTGTTTCCTGCTCTCTCCCTCTGCATATCTTCACTTAGATGCCCTTGGCCCCGAG
CCAGCTACCATTGCACCTCTAGCTGCAAACAAAGCTAAGACAGCAGGGAACAGAATTGTATGGCTGAATAGACC
AATCGTGTTCATCTACTGAGACTGGCACACTGCCTCCTGCAATAAACTGGGATCCCATTACCAAGAGAGAAAT
GCAGAATTGTGTACAGTTAGCTTTTGTGTGTAAACAAACCATCCCCAACTTGGCAGCTAGAAACAAACCTGT
ATTTTCCCAACATCCTATGGGTGGCAATTTGGGCTGGGCTCAACAGGGCAGTTCTGCTGCTCACACCTGGGATC
CCTCATGGAGCTAAGGTCAGCTGTTACCTCAGCTGGGCCTGGATGGTCTAGGATAGCCTTACTCACTTGCCTGGC
AGGTGACAGGCTGTTGGCTGGAATTGCTTGGTTCTCCTCCATGTGGCCTCTCCAGCAGGCTAGCTCAGGCTTATT
CACATGATGGCTTCAGGATTCCAAAGAGAGTGAGAGTAGAAGCTGAAAGACTTCTTGAGTTCTTGGCCTGGAAC
GGGACTAGGACAGTGTCACTTCTGCTAAGTTCTTTTGGTCAGAGCAAATCACAAGGCTTTACCCAGATTCAAGGG
ATGAGAAACAGACTACATGTCTTGATGAGGGGAACCACAAAGAGCTTGTGGCCATTTTTCACCTATCACAAATAA
TTTTGGATGGGTATTTATTTGGATAAAGGTATTTCCCTCTTCCCCCTTTCTCTCTGTCTCATGGGGCCTCACTCT
GCCAAGTTGGAAGGCACTAAGACATTGTCCTGGCCCTCAGGGTCTAGGGGAAGAGGTGTTGGGGCAGGAAGTGAG
TCTCTCCATGGGCTGGACCCACTGTAGTAGGAGTGCCTCCTTGTCTGCACTGCTGGTATGGGGTTAGGCCAGGTA
GGACATTCCAGAGGGGCTTCTGAAAACCAAGAGTCCCTGGGGAAAGGGAACAGAGTAAGGCAGGCCTTGTCTCA
CTGCCCTCTAAGGGAACCTGGTCACTCGGCACCTTTTAAGCCTCAGTTTCTCCAGTTCAATAATAAGGACAAGAGC
TTTTCCCATGCATTCTCTTTCCCCGGGAAAGTTGACTGAGGTGACCAGTAATAGAATTGAAAAGGGAGAGTGTCT
TCAGTGCAATGTGGCATCCTGGATTGGGTCTTGGAAACAAAACAGGACATTAGTGGGAAAATTGGAAATCTGAAA
AAAGTCTGAATTTTAGTTAATATACCAATTTTCACTCTCTTGGTTTTGACAGATGTACCATGGTGATGTAAGATGT
TGACCTTGGGGTAGGCTGGGTGAAGGTATACAGGAACCTTTTGTACTATCTCTGCAACTTCTCTGTAAATCTAG
TATCATTCAAAATAAAAGTTTATTTAATTT

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FIGURE 5645

MGLKSHVLPAPNSQGQSLCIFVYVTSYMDYIQLQGKENLDCSGLNKQKIVFPHSMDSGDGWLMLVLVQQLHEGRG
HVLDPFALISVLVTSWSQDGCCIPKNHVCVQGRRGGGRGRAKLAGPVTFYQKVPRQKSVSCSLPLHIFT

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FIGURE 5646

GTCTGAGCGCGCTCGGCTTTTTTTTTTTTTTCTCTCTCCTTCCCTGCAGCAGTGGCCGGTGTCCAGCTGCCTACT
TTCTGCCCCGATCTCTGGCTCCTCATCTCTCCGGTCTCCGCAGACTAAAGCCCTCGGGATATGCAGCAGCCATGC
CTGTGCACACGCTGAGCCCCGGAGCCCCGTCCGCCCCCGCCCTACCTTGCCGCCTGCGGACCAGGGTCCCTGGCT
ACCTGCTACGGGGGCCGGCAGATGGTGGAGCCCCGAAACCGAGCGCTGTGGAGCGCCTGGAGGCCGACAAGGCCA
AGTACGTCAAGAGCCTGCACGTGGCCAACACCCGCCAGGAGCCTGTGCAGCCCCTGCTGTCCAAACAGCCGCTCT
TTAGCCCTGAGACTCGCCGCACAGTGCTCACGCCAGCCGCCGAGCCCTGCCTGGCCCCCTGCCGACGGCCCCAGC
TGGACCTGGACATCCTCAGCAGCCTCATCGACTTGTGTGACAGCCCCGTGTCCCCTGCCGAGGCCAGCCGCACTC
CTGGACGGGCCGAGGGAGCCGGCCGTCTCCCCCAGCCACCCCTCCGCGACCGCCGCCAGTACCTCTGCGGTCC
GCCGGGTGGACGTCCGCCCCCTGCCCGCTCGCCTGCCCGGCCCTGCCCATCACCCGGCCCTGCCGCCGCCTCCA
GCCCAGCCCCGGCCGCCGGGTTTGCAACGCTCCAAGTCGGACTTGAGCGAGCGCTTTTCTAGGGCAGCCGCTGATC
TCGAGCGCTTTTTTAACCTTCTGCGGCCCTGGACCCGGAGGAGGCGAGAGGGTTGGGTGTGGCCACCTGGCACGGG
CCAGCTCGGATATCGTGTCCCTGGCAGGGCCCAGTGCTGGGCCGGGCAGCTCTGAAGGGGGCTGCTCCCGCCGCA
GCTCGGTGACTGTTGAGGAGCGGGCCCGGGAGCGCGTTCCCTATGGCGTGTGCGGTGGTGGAGCGCAATGCCCGCG
TGATCAAGTGGTTGTATGGGCTAAGGCAGGCTCGGGAGAGCCAGCAGCTGAAGGCTAGGCGCCACTGGGCCTGG
AATTCGCCACAGGACGGATCTTACAGAGGCAAGTGGTCCCTGGACCTCTCTTGATCCATTCTCTAGACGGCCGT
GTCAGAGGCTCCACCCTGTTGTGAACCTGGTATGGAGGCAAAGGCTTAGAGGCTGGACCAGCATTGTTGGGCAAG
GACTGACTCTCCAAGGGTTTGTCTTGGCTTTGGACACCTGAGAACCCCTCCTCCCCTCCCCAATAACAAGGT
TTTTGACATGAGTGTACTCCTGCTTAGTTCCCTCTTGTGGGGCTGCATTTGCGGTGCTTTGCCCTCCCCACTGTGA
GTGAGGGGCCAAGGGATCTCCTCAATCCTGTCTCCCCAGCGGCTCTGTTTCTCCTCCTTCTTGGCCTCTGTC
CTTTGCTGACTTCTCTTCTTACCCAGCAGAACTCACCCCTGGGGTCCGGGCAGTGGGGAGGGGCCTATCCACTG
CTCTTCTAGTCCTTGGCAGCTGGCCTAGGTGGGCAGACTATAGGAGGGACTGGTTAGGAGTCTGCATTGCTTTG
ACTTCCCTCTCCTTGGTTAATAAACACAAATGCTTGTCTTC

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FIGURE 5647

GCAAGAACCAGCGCAAGAGGGAAGCAGAGTTATAGCTACCCCGGCCGCGGAGCCGGCTCACTGCACTACCCCGC
CCCCCTTCTTTCCCTCCAGACGCCGAAGTCGCGGGCGCTCATGGCGGGCCTGGAGGTACTGTTTCGCATCGGCAGCGC
CGGCCATCACCTGCAGGCAGGACGCGCTCGTCTGCTTCTTGCAATTGGGAAGTGGTGACACACGGTTACTTCGGCT
TGGGTGTCGGTGACCAGCCGGGTCCCAATGATAAGAAGTCAGAACTGCTGCCAGCTGGGTGGAACAACAATAAAG
ACCTGTATGTCCTCCGGTATGAGTATAAGGATGGGTCCAGAAAGCTCCTTGTGAAAGCCATCACCGTGGAGAGCA
GCATGATCCTCAATGIGCTGGAATATGGCTCACAGCAAGTGGCAGACTTGACCCTGAACCTGGATGATTATATCG
ATGCAGAACACCTGGGTGACTTCCACAGGACCTACAAGAACAGTGAGGAGCTTCGGTCTCGTATTGTGTCTGGAA
TCATCACACCTATCCATGAGCAGTGGGAAAAGGCTAATGTAAGCAGTCCCCACCGGGAGTTCCCCCTGCTACCG
CCAGAGAGGTGGACCCACTCCGGATTCTCCACACCACCCACACACCAGTCGGCAGCCTCCCTGGTGTGATCCCC
TGGGCCCCGTTTGTGTGCGGGGAGAAGACTTAGACCCTTTTGGGCCCTCGGAGAGGTGGCATGATTGTGGATCCCC
TGAGATCTGGCTTCCCAAGAGCACTTATTGACCCTTCTCAGGCCTCCCGAACCAGCTTCTCCAGGCGCTGTGC
CCCCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGCCACCCGGACCTAACCCAGACCATCTCCCC
CGCCGGGCTACGATGACATGTACCTGTGAAGGCCTCAAGAATGTAACATCCCAGGCTTCCCTCCATTCTCTGGA
GCTGCCACCGCTGTCCCCATCAGCAACCATGTTCTTGCAAGGCTGGGGGCAAGGGATTCTGCTCATGTGTTTGCAG
ACCGGCTGGGATAGCCTCCCCACCCCTTATCAGAGCCAAGACACCTGCTGCAGCTCTCCACCTAGCTGCAGATAG
CTCCCAAAGAGAAATCAGTGTGTCTCTTTACCATCAGCTCCTCCCCTTTCACCACCAGCTCCTCTCCACTTCCC
AAGGGAGACTCCGGCAACCTTCAGCAACATATATCTCGACCAGATGCAGTGCTATAAGAACAGAACGCATTTTG
GATGTTATTATTAAGAACCAATGTCAATACAGAATTATGTTGCCGGTTTCCCACTTTTCTTTTACATTAATG
CATAGCTGCTTCCATTTATGAGACTTTAGAGTTTGAGTTTCTGTAGGGCTGAATGACTCTTTTCTGCCCAGGG
CCCATTCTTGCTTCTCAGGCACCTTCCGTTTATTAATTGCCATTGCTCCTGACATCACTAAGATGGGTCCCCTTC
TGGCTGCATGAATGGAAATGAGTGACTGGAAATCCCATAGGCCACAAGATGACTTTTACAAGGGCAGGAACATT
GTGGAAAGACTGCATCATTCTGATGAGGCAAAATCCTCCAGCTATTCTGTCTGGGCCAGTTTTGTAGGTCCATC
TGTGCATGGGCAGCAGTAGTCAAAAAGCCAAGGAAAAAACAGAGCAGACCTGAAGGCTAATCTTATTTTTGCCAC
TAACTTAGTGAATGACCCTAAGCAAGTTCCTTCTCCTCTTAGGGCCTTGTGCCAAGCCTATGAAATTGGAGGTGG
CTTCTCTGCTCTAAAGCATTTTGATGTCTCATTCTGTGTTTGGTAACCCCTATAAACTGGGGCAGAGGAAAAGAA
TGATGGTTCAAGGCCATACTTCCCTTGAACCTTGTGTGGTTCTTGCCCTAATCTGTGGTTTTTGGACCCCATGGG
GCCAGACAGAGCACAGGAGCATGGGCTGCCTCTGAGTGTGGTGTGTAACCTCGGGAGGAGCAGGGAGCCCTGCA
CCTTGTGTCTGGCCACCTGACCTTTGGTGTCTCCGGATCCTTTTCAGCCCGAGGCCTGACAGACGCGGGCAG
TGATGAGCCCTGTTCTGGAGTGGAAGAGCACGATAGAGCACCAGGCTAAGAGGCACGAGATCAAGGCGGTAGTC
ACTTCCGCTCTGCAGCTAGCATTTCAACCATATGTGGATCCTTTTCACTTCTCAGCTCCCTGGATTCTTCCCCTA
AATTAGGACCTATTATTTACCTGTAGGTAAGCAAGCTACTGTAGCTCTTCTGAGGTATCTGCCAGGCTGTTTTCT
GTAGCCTCAGATTGCCTATCTGCTTAGCCTGAGAACAGGTAGATGAAAATAAACTGATGCCTAGGCCCAGGGTC
AGTCTCAGATGGAAGCTGGGCCTGGGTGGGGAGGCTAGCATGCGTGGCTCCCTGGGTATTTCTGTCAGTCCCCAT
GGCAAGCAGTGATTTAGTAAACACCCCAGAGTCAGGGAAGCCAACCACCTTGAAACCTTTAGAATCTCTGCT
TTGGAGAAAGACCCAGAGATCAGGCAGAGGTGCAGATTCAATCATTACTATAACCTTTGAGAGATGGCAAATGG
GAGGAGTGTAGTCTTTGTTTTGGAATTGGACCATCTTGCAACCAAAAGGACTTAGAGCAGTTTGCTCATAAAG
ACATCCTTTATTATAAAAGGAAGTATTTAAAGGATGATAGAGACCATCAGATAGAAGCAGGGAAGGTAGATAACT
TTTAGGACCTTGATGTGAGGAAAAGATAAAAATTTAAACAATAAATTTGCCACTTAGATTTTCTAGCAGCAAAGTC
CGAAAAGATAGTTATATACAAAATTTCTGTTTTCTGAAAACAAAATTTGTGATTCACCTTCAGAATTGGCCATTTTT
TTTGTGAGTTTCTTGCATCAAGGACACTGAGAAACACAGTCATTGTCTTAGGTGTTCTATGGGAGGAAGTGAAT
AGAGCCTTTAGGAACCTTCTGGTCAAGCTTATGGTGTCTATTTTGTATCTGGGCCACTTCCCTCCTTCCAGTCATG
AGTAATCATCAAGGAGCAAGTTGGAGTGTTCAGGTGTATATTTGTAGAACCCAAAAGATTGGAGCCTTAACAA
TAAACATCAGCACT

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FIGURE 5648

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCCCGCCGCTCAGCGTCCGCCGCCGCC**ATCG**GGAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCACTACACGGGATGCTTGAAGATGGAAAGAAATTTGATTCCCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTGAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAACTGGAA**TGAC**CAGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGACATGTGCACATGAGTCCATATGGAGCTT
TTCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCTGACTGAATGTGTTCTGTCACTCAGCTTTGCTTCCG
ACACCTCTGTTTCTCTTCCCTTTCTCCTCGTATGTGTGTTTACCTAAACTATATGCCATAAACCTCAAGTTAT
TCATTTTATTTTGTTTTCAATTTTGGGGTGAAGATTGAGTTTCTAGTCTTTTGGATATAGGTTTCCAATTAAGTACA
TGGTCAAGTATTAACAGCACAAAGTGGTAGGTTAACATTAGAATAGGAATTGGTGTGGGGGGGGGGTTTGCAAGA
ATATTTTATTTTAATTTTTTGGATGAAATTTTTATCTATTATATATTAACATTCTTGCTGCTGCGCTGCAAAGC
CATAGCAGATTTGAGGCGCTGTTGAGGACTGAATTACTCTCCAAGTTGAGAGATGTCTTTGGGTAAATTAAGG
CCCTACCTAAACTGAGGTGGGGATGGGGAGAGCCTTTGCCTCCACCATTCCCACCCACCTCCCTTAAACCCT
CTGCCTTTGAAAGTAGATCATGTTCACTGCAATGCTGGACACTACAGGTATCTGTCCCTGGGCCAGCAGGGACCT
CTGAAGCCTTCTTTGTGGCCTTTTTTTTTTTTTCATCCTGTGGTTTTTCTAATGGACTTTTCAGGAATTTTGTAATC
TCATAACTTTCCAAGCTCCACCACTTCCTAAATCTTAAGAACTTTAATTGACAGTTTCAATTGAAGGTGCTGTTT
GTAGACTTAACACCCAGTGAAAGCCCAGCCATCATGACAAATCCTTGAATGTTCTCTTAAGAAAATGATGCTGGT
CATCGCAGCTTCAGCATCTCCTGTTTTTTGATGCTTGGCTCCCTCTGCTGATCTCAGTTTCTGGCTTTTCTCTC
CTCAGCCCCCTTCTACCCCTTTGCTGTCCTGTGTAGTGATTTGGTGAGAAATCGTTGCTGCACCCTTCCCCAGC
ACCATTTATGAGTCTCAAGTTTTATTATTGCAATAAAAGTGCTTTATGCCGGCTTTTCTCAAAAAAAAAAAAAA
AAA

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FIGURE 5649

MGVQVETISPGDGRITFPKRGQTCVVHYTGMLEDGKKFDSSRDNRNPKFKFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPIPPHATLVFDVELLKE

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FIGURE 5650

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCC GCCCGCTCAGCGTCCGCCGCCGCC**ATG**GGAGTGCAGGTGGAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCACTACACCGGGATGCTTGAAGATGGAAGAAATTTGATTCCCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTCAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAACTGGAAT**TGA**CAGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGGTAAGGAAATGGAATACTGAAGGGCCCTTCACTGCCTTTGCTCCTCCCATGTTATGCCC
AGCGTTTGATGGGTAGCAGAGAGAAACAAAAACACCACAAGGCTATTTTTCCCCCTGCATTCTTTCTGTATTGAG
TATCCTTTCAGTGTTATTAGTGTATGCTTTGAATGTAAAAATTGGTCACCCTAAGGAAAGGAATTGGCATGTGTA
TGTTCCCAGTTCAACTCATGGAGATGGCAGCTGTTTAAATGTTTTCTATGTAGTTTATAAATTAAACTGAATT
GAGGACTATGGAATGTAGGCCAAATTTGTAGTGCCAACATTTTAGTTCTTTGGAATAA

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FIGURE 5651

MGVQVETISPGDGRTFPKRGQTCVVHYTGMLEDGKKFDSSDRNKPFFKFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPGIIPPHATLVFDVELLKE

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FIGURE 5652

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGACAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGCAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTGCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCCAGCCAAGATGTTTCATGTAGTATTGAACTCTGGAAGAGTGGATTTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAACCTTGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCCGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACTGCTCAATGCTGTCATCGTGCAGCGGTTAACA**TAACC**
GCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTCTTCTCCTTAGTTGCATTTCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAA
CAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5653

MAAERQEALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEDEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGEKROHSSQDVHVVLKLWKSGFSLDNELRSYQDP SNAQFLESIRRGEVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLSTSSPAQQAENEAKASSILIDSEPTTNIQI
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFILMTTFPNKELADESOTLKEANLLNAVIVQRLT

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FIGURE 5654

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAACTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGCTGCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT
GCCGGGGGGCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGGTCTCT
CCCCACCTATGGGCCGAGGAGCACCCCCTCCAGGCATGATGGGGCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 5655

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQAEREKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMFQAPAGLAGPVRGVGGPSQQVMTPQGRGTV
AAAAAATAASIAGAPTQYPPGRGGPPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPP
GMRGLL

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FIGURE 5656

GGCACGAGGCTTCTGGCCTTCTCCTGTCAGCAGTTCTCAGTCAACATGTACTTCAGATCTTCTGGGCTTATGT
GCAGAAAATCACTTCCATCCAGGGAATTCTAGCCCAGGGCATTGGAAACAGCAGGGGCAGCAGTATTCCCATGTA
AGCTGTTGGTTTGAAAATGCAGAAGGTCAGGAGAGAGGAGGTGGCTCCAAACCCTGGTCTGCAAGGACAGAGGAG
AGAGAAACCTCAAGGGCATTCCCCAGCCCCTCCAAAGACAGTCAGCAAGTCCTAGAAAAGGCAACATGGTGGTA
GAAACAGAGCCCGAGTCAGCCCCAAAGACCAAACCCTGTGCAGCTAGACAAAGGCTTGAAGGAATTAGAAACCTTG
AGATTTGGAGCAATCAACTGTAGAGAGTATGAACCGGACCATAACCTGGAATCAAACCTTTATTACAAACCCGAGG
ACCCTCTTAGGGAAGAAGCCCTACATTTGCAGTGATTGTGGGCGAAGCTTTAAAGATAGATCAACCTCATCAGA
CACCATCGTATACACTCGATGGAGAAGCCTTATGTGTGCAGTGAGTGCAGGGCGAGGTTTTAGCCAGAAGTCCAAC
CTCAGCAGACACCAGAGAACACATTGAGAAGAGAAGCCTTATTTGTGCAGGGAGTGTGGGCAAAGCTTTAGAAGT
AAGTCCATCCTCAATAGACATCAGTGGACTCACTCAGAGGAGAAGCCCTATGTTTGCAGCGAGTGTGGGCGAGGC
TTTAGCGAGAAGTCATCCTTCATCAGACACCAGAGGACACACTCCGGTGAGAAACCCTATGTGTGCCTGGAGTGT
GGACGAAGCTTTTGTGATAAGTCAACCCTCAGAAAACACCAGAGGATACACTCAGGGGAGAAGCCTTATGTTTGC
AGGGAGTGTGGGCGAGGCTTTAGCCAGAACTCAGATCTCATCAAACACCAGAGGACACACTTGGATGAGAAGCCT
TATGTTTGCAGGGAGTGTGGGCGAGGCTTTTGTGACAAGTCAACCCTCATCATAACGAGCGGACGCACTCTGGA
GAGAAGCCTTATGTGTGTGGTGAAGTGTGGCCGAGGCTTTAGTCGAAATCACTCCTCCTTGTCCACCAGAGGACA
CACTCAGGGGAGAAGCATTATGTCTGCAGGGAGTGTAGGCGAGGTTTTAGCCAGAAGTCAAATCTCATCAGACAC
CAGAGGACGCACTCAAATGAGAAGCCTTATATTTGCAGGGAATGTGGGCGAGGCTTTTGTGACAAGTCAACCCTC
ATTGTACATGAGAGGACACACTCAGGAGAGAAGCCTTACGTGTGCAGTGAGTGTGGCCGAGGCTTTAGCCGAAA
TCACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGTTTGTAGGGAGTGTGGGCGAGGCTTT
AGTCATAAGTCAAATCTCATCAGACACCAGAGGACACACTGACGGGAGAAACCTGTGTATGCAGGGGTTCATGAAC
AAGACCTGAGTGACCAGTCAAGCCTCATGTTACCCAGAGAGACACATGGGGAGTAGACCCTGTGTACACAGATT
GTGAGTGAAGTTCCAGAGATGTGTGAGCCCTTATCAGGCATGGGAGGGACACGTTCCAGGAGAGGAGCCTTATGAG
TATAGAGTACGGGCAACTGTAGCCATCAGTCGGCCTTGAGCATGCACAAAAGGACACACTTAGGAGAGAAGTTTA
TGTGTAGGGACTGTGGGAAGGCTTTAGCAATAATCAACATTTACCAGACATCCAATGACAGCCTCAGGGGAAAGC
ACCCTTGTCTGGGGAGTGTGGGGAGCATCAGTAAAAGAATGGACACTCAGGCACAGAGTGGCCCTCAGGAAGGA
GGTCTTTGTTTGTAGGATGTATGGGCAAAGCTTTTGTGATCACACACCACAGGGAGAATCTGCATGTGGGGACAC
TGTGGAGCTCTGCCCAGATGACCTTTTACGGGGTAACACCCAGCTGCTTGAGAGAACAGTGTGCTGCTGGCAG
AGATGCATTCCAGAGATGCACTCCGCTCTGGAACCTCACTCTCAGCCACAGGGAGCTGCATGCACCACAGGGGCAA
TGCACCTTTGCAGGGGTACCTTCTGGCCCCAACCTTGACTCAACGGGGACAACCTCAGAAGGTCAATCCAGATC
CAGAGATCCCCATCGAACTGAAGGATCACTGGGTTGCAGACACATTGCAGGTGAGCTTCTTCTCTGCCCAGTCC
TGCCCTCACTCCCCAGTGAATCCTCAATTTTCTGTCTCGTTGTCTGTCCAGATAATTGATTCTAAGACATGTTAG
GTATATAAGGAGTGTAGATAAGGCTTCAGCCATGAGTCACCCCCAGTAAGCCCCAGAGTATATTGAATAGAAAT
TCTGCATGTGTGGGGAGAAATGGACAAGGACTTAGGAAAAAGTCCTCATCAAAGAACAGCTTTTTTGGGACAAGCT
TTACATGGGTGGGGAGGGAAAAATGTGAAACACATTAGCAATAAGTTAAACCTCATCTTGTACTAAAGGAGGACAC
ACTCAGGGAGAAGACCTCTGTGGGCAGGGCTTGTGGGTGGAGCTTCATCCCGATGTCACTCCTCAACTGACTTAG
GAGGACAGTCTTGCTACCCCAAGTCACTACCTCACTCACCTCTGAGGGATTTTCAGGAAATGTCTTGACTCCCCC
ATGTACTCTGTATGTGAGCGAAGATGGCAGTAACTGTTAAATAAGCATTCTTTTCTACTTCTTGAATCAGATGA
AATAAAAAAGCAGGCTTTATTTAAGTAATCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5657

MVVETEPSSAQRPNPVQLDKGLKELETLRFGAINCREYEPDHNLESNFI TNPRTL LGKKPYICSDCGRSFKDRST
LIRHHRIHSMEKPYVCSECGRGFSQKSNLSRHQORTHSEEKPYLCRECGQSFRSKSILNRHQWTHSEEKPYVCSEC
GRGFSEKSSFIRHQRTHSGEKPYVCLECGRSFCDKSTLRKHQRIHSGEKPYVCRECGRGFSQNSDLIKHQRTSLD
EKPYVCRECGRGFCDKSTLIIHERTHSGEKPYVCGECEGRGFSRKSLLL VHQRTHSGEKHYVCRECRRGFSQKSNL
IRHQRTHSNEKPYICRECGRGFCDKSTLIVHERTHSGEKPYVCSECGRGFSRKSLLL VHQRTHSGEKHYVCRECG
RGFSHKSNLIRHQRTH

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FIGURE 5658

GATGAGGGTCTGCGGGGCCGCCAAAGGAGCCACGGATCTCACCCACCTGCGGCTGCAGCAGACTGATCTCCTCC
ACTTCCTTCAGCGCCAGCAGCGCGTAGCCGACCGCGTGCTCAAACAGCACGTGCAACAGCACCTGGAACGGGAGC
CGGGGCGCGAGCGTCAACGCAACCTCAGCGTCTGCCGGAACCCGTTCCCAGGGCAGGCGCAGGCGCAGGCGCAGG
CCCAGGCCCAGGCCCAGGCCCTGTCTGCGGGCCGAACGCAGGCCGAAACCCCCACCGTCGCGTCGCCCCGCGCCCC
GCAACCACTCCTCACCATGGCGCCAGCTCCCGGGTTCGGCTCGCAATGCGGCTAGCGCGCTCCGGCGCGCGGAAC
CAGGCTCCAGAGGCCACGCCCCCGCCCCCGACCAATCGGAGGCCGGGGACGACACCATCTCCGGCCTTTGGAG
GGGCGCCCAGGGTGGTATCGCCCGGAGCGCGGGCTGGGTGGTGCCGAGCGCGGGCGAGCGGGCCITTTCCGGCC
TCTGCAGCTGCGCGGGCGGGCGTGGTTGCCGGGGACGCGCGGGCCCCCGGTCCGGGCACTGCAGGCGGCGAAACGAC
TTGGGAAGGCCCTTTTCGGGGTAATAGTCCGGTTTCTGATGTTCTTGTCATATGAGTTACGGGCAGCAGAGCTGGG
TGAAGTCGGGGCGGGAGGTCCGCGTGGGGCGCGGCGTCCATCCCAGACAGAGACCGCTGCCTAGCCGGCTTCCCG
CTTCGTCCGTGGCCTCGGGCCCCAGACCCTGCGCCCCACGTCCCCGGGACCCAGGCGTTCCTCGTCCCCTACTCGG
GGACGAGCCTCCCCGGCGCCGGGTGGGCGGTGCATCCTTTCTCCCACCCGTAACGGGAGCGGTGCCTGGCGCGC
TCTGGCGCAGACCCTGCTGGGAATGTAGCTCGCGCAGTTTTCTTCGTACTATTAATTTATTTCTTTTTTTTGT
TTGGTTTTTTTTTTTTTAAATGACTGTAGCAGGCAGTAACGTGCGAAAGAAAGACGCTCCAGCGTCTTCTAGGCC
AGTTTCTTGTTGCTGTGCTGCACGGGACCCAGCTCCTTTTGCTGGGCCACGTGTTGCTCCTCCGCTTGGGCGGCC
CTGAATTCTGGGCGCTGGTGATCGCTGAGTGAATCGCAGCTGCTTCCCTGTCCTTGAGGGCGTCTTTGGGCACT
CAGGCGACTCTTTAGAAATGAGTTTTGCTTTAATAATTAATATTAACGTTATAAATCCAAAACCTAGTTATACTT
AAGTAGCGTATCCCTGGTATGTTTTAAAGAGTCATTGGAAGGGGATTTTTAAAAATAATGTATAGCTATAAACT
GCATTTATACATTTAATTGTTATTTTGTAAAGCGATTGAGTTACTTGACAAAATCCAAGTACATAGTTCAC
AAATCTAATATGTCAAACCTAAATGTGGTTGGTAAATCTTACTCTCATAATTTCAATATGGTTTACAGATGTGGT
TGAATTCGTACACATGTCTACTTACGAGTCAGAATCGTTATTCCATTTAATATTTTAAATGGAATTGCCAAG
TTAATCCATACATTAGCATGTTAAATTATTTTAAACCGTCGTGAATACATCAAAATAGACGATTCCAAAATGTAAT
GGAAAATACTAATGCTAATACTTCAATTTACTTCATTATTTCTGCCCTTAATCCTGAATCTTCTGGAGTTACAG
GTGCTTATCCACTAAACCAGGGGTTTTCAAGCAAGAAGTCAGAATGCATTAATGGACAGCATTTAAAAAATAGG
ATTGGGTGGGCTATAATCCAGCACTTTAGGAGGCCGAGGCAGGCGGATCACTTAAGATCAGGAGTTCGAGACCAG
CCTGGCCAACATGGTGAAACCCCGTCTCTACCAAAAAATAAAAAATTAGCTGGACGTGGTGGAGCATGTCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGAAGGAGAATCGCTTGAACCCGGGAGGCAGAGGCTGCACTCTAGCCTGGGC
AACAGAGCAAGGCTCTGTC

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FIGURE 5659

MSYGQOSWVKSGREVRVGRGVHPRQRPLPSRLPASSVASGPRPCAPRPRDPGVFPYSGTSLPGAGWAVHPFLPP
VTGAVPGALWRRPCWECSSRSFLRTINLFLFFVFGFFFLNDCSRQ

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FIGURE 5660

CGAACCCGGGAGCTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGAGCACGCGGTGCGCTACGCGCTGCTGGCGC
TGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGAGGTGGAGGAGTCTGTGCTCAACCTGGGCAAATTCCACA
GCATCGTTCGTCTGGTGGCCTTTTGTCCCTTTGCCTCATCCCAGGTTGCCTTGGAATGCCAACGCCGTGTCTG
AAGGGGTTGTTTCATGAGGACCTCCGCCTGCTCTTGGAGACCCACCTGCCGTCCAAAAAGAAGAAAGTACTCTTGG
GAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAACCTGCCAGACTGGAGGAGTCATAG
CTGAGATCCTGCGAGGAGTTCGTCTGCACTTCCACAATCTGGTGAAGGGTCTGACCGATCTGTCTAGCTTGTAAAG
CACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTTAATGTGAACCGGGTGGACAATATGATCA
TCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATGCGTGTCTAGGGAGTGGTACG
GGTATCACTTTCGGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGTCTTGCCAGTTTATTGGAA
ACCGAAGGGAACTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTA
TTCTGGATGCCCTCACGGTCTCCATGGGCATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCA
GTCGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCC
CCAGCCTGTCAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAACCTGG
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCAGAGCCCTGAAGACAAGGGGTA
ACACTCCAAAAATATGGACTCATTTCCTCCACTTACCTTATTGGCCGAGCAGCTGCCAAGAACAAGGCCGCATCT
CCCGATACCTGGCAAACAAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAGGTGCCACGAGTGTATTCTG
GGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCTTCTATGAGACTGGAGAGATACCACGAAAGAATCTGG
ATGTCATGAAGGAAGCAATGGTTCAGGCAGAGGAAGCGGCTGCTGAGATTACTAGGAAGCTGGAGAAACAGGAGA
AGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCCTCGCGTCTTCAGAAAACAGCAGTAGTACTC
CAGAGGAGTGTGAGGAGATGAGTGA AAAACCCAAAAAGAAGAAAAAGCAAAAGCCCCAGGAGGTTCTCAGGAGA
ATGGAATGGAAGACCCATCTATCTCTTTCTCCAAACCCAAAGAAAAAGAAATCTTTTTTCAAGGAGGAGTTGATGA
GTAGCGATCTTGAAGAGACCGCTGGCAGCACCAAGTATTCCCAAGAGGAAGAAGTCTACACCCAAGGAGGAAACAG
TTAATGACCCTGAGGAGGCAGGCCACAGAAGTGGCTCCAAGAAAAAGAGGAAATCTCCAAAGAGGAGCCGGTCA
GCAGTGGGCCTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAAGAAAAAGTTCCATAAAGCATCCCAGGAAG
ATTAGAATGCAATGGACATTCTCTGGGAGGTGGGGCATACCATAGCCCAAGGTGACATTTCCACCCTGTGCCG
TGTTCCCAATAAAAAACAATTCACAAG

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FIGURE 5661

TGATACATCGTTGCTCATTGTCAGAACATAACAGTTGCACATTGCAAGAGTCAACTTGCTTCGGGTCTTTTCAT
GCTCATGGCGGTATTGAGCGGAGTCCGCTGGCTGACCCGAGCGCTGGTCTCCGCCGGGAACCTTGGGGCATGGAG
AGGTCTGAGTACCTCGGCCGCGGCGCACGCTGCATCGCGGAGCCAGGCCGAGGACGTGAGGGTGGAGGGCTCCTT
TCCCGTGACCATGCTTCCGGGAGACGGTGTGGGGCCTGAGCTGATGCACGCCGTCAAGGAGGTGTTCAAGGCTGC
CGCTGTCCCAGTGGAGTTCAGGAGCACCACCTGAGTGAGGTGCAGAATATGGCATCTGAGGAGAAGCTGGAGCA
GGTGCTGAGTTCCATGAAGGAGAACAAAGTGGCCATCATTGGAAGATTTCATACCCCGATGGAGTATAAGGGGGA
GCTAGCCTCCTATGATATGCGGCTGAGGCGTAAGTTGGACTTATTTGCCAACGTAGTCCATGTGAAGTCACTTCC
TGGGTATATGACTCGGCACAACAATCTAGACCTGGTGATCATTGAGAGCAGACAGAAGGGGAGTACAGCTCTCT
GGAACATGAGAGTGCAAGGGGTGTGATTGAGTGTTTGAAGATTGTACACGAGCCAAGTCTCAGCGGATTGCAAA
GTTTCGCCTTTGACTATGCCACCAAGAAGGGGCGGGGCAAGGTCACTGCTGTCCACAAGGCCAACATCATGAAACT
TGGGGATGGGTGTTCTTGCAGTGCTGTGAGGAAGTTGCTGAACTGTACCCCAAAATCAAATTTGAGACAATGAT
CATAGACAATGCTGCATGCAGCTGGTGCAGAAATCCTTACCAGTTTGATGTGCTTGTGATGCCCAATCTCTATGG
GAACATTATTGACAATCTGGCTGCTGGCCTGGTTGGGGGAGCTGGTGTGGTCCCTGGTGAGAGCTATAGTGCAGA
ATACGCAGTCTTTGAGACGGGTGCCCGGCACCCATTTGCCAGGCAGTGGGCAGGAATATAGCCAATCCCACGGC
CATGCTGCTGTGCGCTTCCAACATGCTGCGGCATCTTAATCTTGAGTATCACTCCAGCATGATCGCAGATGCGGT
GAAGAAGGTGATCAAAGTTGGCAAGGTGCGGACTCGAGACATGGGCGGCTACAGCACCACAACCGACTTCATCAA
GTCTGTTCATCGGTACCTGCAGACTAAAGGGAGCTAGAGCCCTTTATTTCTTCCAACCTTGCAAGGACCACACTC
CCCATACCTTTCAGTGCAGTGTACCAGGGAAGAGACCTTGTGCCTCTAAGCAGTGGACCATGGTCACCCCTTGCT
GGGTAGAGCCTAGGTTGTCTTGGGCCGGCTTCCTTAGGGGACAGACTGTTGGGTGGTGATGGGGATTGTTAGGA
TGGAGCCCAGGCCACATGGATGATGATGATTCTCCCCACAGGTTTGAACCTCTGACATGGGTGGCTATGCTACT
TGCCATGACTTCACTGAGGCTGTCATTGCTGCCTTGCCCCACCCATAGGCCCTGTCCATACCCATGTAAGGTGTT
CAATAAAGAACATGAACCAAAA

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FIGURE 5662

MAVLSGVRWLTRALVSAGNPGAWRGLSTSAAAHAASRSQAEDVRVEGSFPVTMLPGDGVGPELMHAVKEVFKAAA
VPVEFQEHHLSEVQNMASEEKLEQVLSSMKENKVAIIIGKIHTPMEYKGELASYDMRLRRKLDLFANVVHVKSIPG
YMTRHNNLDLVIIREQTEGEYSSLEHESARGVIECLKIVTRAKSQRIAKFAFDYATKKGRGKVTAVHKANIMKLG
DGLFLQCCEEVAELYPKIKFETMIIDNCCMLVQNPYQFDVLVMPNLYGNIIDNLAAGLVGGAGVVPGESYSAEY
AVFETGARHPFAQAVGRNIANPTAMLLSASNMLRHLNLEYHSSMIADAVKKVIKVGKVRTRDMGGYSTTTDFIKS
VIGHLQTKGS

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FIGURE 5663

ATGTGGGGGCTCCTGCTCGCCCTGGCCGCCTTCGCGCCGGCCGTCGGCCCCGGCTCTGGGGGCGCCAGGAACTCG
GTGCTGGGCCTCGCGCAGCCCGGGACCACCAAGGTCCCAGGCTCGACCCCGGCCCTGCATAGCAGCCCGGCACAG
CCGCCGGCGGAGACAGCTAACGGGACCTCAGAACAGCATGTCCGGATTTCGAGTCATCAAGAAGAAAAAGGTCATT
ATGAAGAAGCGGAAGAAGCTAACTCTAACTCGCCCCACCCCACTGGTGACTGCCGGGCCCCCTTGTGACCCCCACT
CCAGCAGGGACCCCTCGACCCCGCTGAGAAACAAGAAACAGGCTGTCTCTCTTGGGTCTGGAGTCCCTGCGAGTT
TCAGATAGCCGGCTTGAGGCATCCAGCAGCCAGTCCTTTGGTCTTGGACCACACCGAGGACGGCTCAACATTTCAG
TCAGGCCTGGAGGACGGCGATCTATATGATGGAGCCTGGTGTGCTGAGGAGCAGGACGCCGATCCATGGTTTCAG
GTGGACGCTGGGCACCCCAACCCGCTTCTCGGGTGTATACACAGGGCAGGAACTCTGTCTGGAGGTATGACTGG
GTCACATCATACAAGGTCCAGTTCAGCAATGACAGTCGGACCTGGTGGGGAGTAGGAACCACAGCAGTGGGATG
GACGCAGTATTTCTTGCCAATTTCAGACCCAGAAACTCCAGTGCTGAACCTCCTGCCGGAGCCCCAGGTGGCCCCGC
TTCATTTCGCTGCTGCCCGAGACCTGGCTCCAGGGAGGCGCGCCTTGCCCTCCGGGCAGAGATCCTGGCCTGCCCA
GTCTCAGACCCCAATGACCTATTTCCTTGAGGCCCCCTGCGTCGGGATCCTCTGACCCTCTAGACTTTTCAGCATCAC
AATTACAAGGCCATGAGGAAGCTGATGAAGCAGGTACAAGAGCAATGCCCCAACATCACCCGCATCTACAGCATT
GGGAAGAGCTACCAGGGCCTGAAGCTGTATGTGATGGAAATGTCGGACAAGCCTGGGGAGCATGAGCTGGGGGAG
CCTGAGGTGCGCTACGTGGCTGGCATGCATGGGAACGAGGCCCTGGGGCGGGAGTTGCTTCTGCTCCTGATGCAG
TTCTGTGCCATGAGTTCTTGCGAGGGAACCCACGGGTGACCCGGCTGCTCTCTGAGATGCGCATTACCTGCTG
CCCTCCATGAACCCTGATGGCTATGAGATCGCCTACCACCGGGGTTTCAGAGCTGGTGGGCTGGGCCGAGGGCCGC
TGGAACAACCAGAGCATCGATCTTAACCATAATTTTGCTGACCTCAACACACCACTGTGGGAAGCACAGGACGAT
GGGAAGGTGCCCCACATCGTCCCAACCATCACCTGCCATTGCCCACTTACTACACCCTGCCCAATGCCACCGTG
GCTCCTGAAACGCGGGCAGTAATCAAGTGGATGAAGCGGATCCCCCTTTGTGCTAAGTGCCAACCTCCACGGGGGT
GAGCTCGTGGTGTCTTACCATTCGACATGACTCGCACCCCGTGGGCTGCCCGCGAGCTCACGCCCACACCAGAT
GATGCTGTGTTTTGCTGGCTCAGCACTGTCTATGCTGGCAGTAATCTGGCCATGCAGGACACCAGCCGCCGACCC
TGCCACAGCCAGGACTTCTCCGTGCACGGCAACATCATCAACGGGGCTGACTGGCACACGGTCCCCGGGAGCATG
AATGACTTCAGCTACCTACACACCAACTGCTTTGAGGTCACTGTGGAGCTGTCTGTGACAAGTTCCCTCACGAG
AATGAATTGCCCCAGGAGTGGGAGAACAACAAGACGCCCTCCTCACCTACCTGGAGCAGGTGCGCATGGGCATT
GCAGGAGTGGTGAGGGACAAGGACACGGAGCTTGGGATTGCTGACGCTGTCATTGCCGTGGATGGGATTAACCAT
GACGTGACCACGGCGTGGGGCGGGGATTATTGGCGTCTGCTGACCCAGGGGACTACATGGTGAAGTGGCAGTGCC
GAGGGCTACCATTTCAGTGACACGGAAGTGTGGGTACCTTTGAAGAGGGCCCCCTTCCCCTGCAATTTTCGTGCTC
ACCAAGACTCCCAAACAGAGGCTGCGCGAGCTGCTGGCAGCTGGGGCCAAGGTGCCCCCGGACCTTCGCAGGCGC
CTGGAGCGGCTAAGGGGACAGAAGGATTGA

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FIGURE 5664

MWGLLLALAAFAVGPALGAPRNSVLGLAQPGTTKVPGSTPALHSSPAQPPAETANGTSEQHVRIKVIKKKKVI
MKKRKKLTLTRPTPLVTAGPLVTPTPAGTLDPAEKQETGCPPLGLESRLVSDSRLEASSSQSFGLGPHRGRLNIQ
SGLEDGDLVDGAWCAEEQDADPWFQVDAGHPTRFSGVITQGRNSVWRYDWVTSYKVQFSNDSRTWWGSRNHSSGM
DAVFPANSDPETPVLNLLPEPQVARFIRLLPQTLWQGGAPCLRAEILACPVSDPNDLFLEAPASGSSDPLDFQHH
NYKAMRKLKQVQEQCPNITRIYSIGKSYQGLKLYVMEMSDKPGHEHELGEPEVRYVAGMHGNEALGRELLLLLMQ
FLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAHYRGSELVGWAEGRWNNQSIDLNHNFADLNTPLWEAQDD
GKVPHIVPNHHLPLPTYTLPNATVAPETRAVIKWMKRIPFVLSANLHGGELVVSYPFDMTRTPWAARELTPTPD
DAVFRWLSTVYAGSNLAMQDTSRRPCHSQDFSVHGNIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHE
NELPQEWENNKDALLTYLEQVRMGIAGVVRDKDTELGIADAVIAVDGINHDVTTAWGGDYWRLLTPGDYMTASA
EGYHSVTRNCRVTFEEGPFFPCNFVLTKTPKQRLRELLAAGAKVPPDLRRRLERLRGQKD

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FIGURE 5665

GCTGTGAGGCTCGGAGTCGCCGAGGAGCCAGTATCTGTGTGCGCGCCGCCGCGGGCGTCCCCGGTTTGGTGCTG
CGGCGCCACCTTCGGGAGGATCAGTATCTGGCACCAATTCTGACCCAGTCATTTGTGATCCCTGGCTCTTGTGA
TATGCTGAAGATTTCCAGGCAGTTTTTGTGGAACACCTCCCCGTCCAGCTCTAATCAAGCACCATATAACAAGA
AATTGCCTGGTCAAATCTGTGAGGACTGTATTCTGACTGCCAAAGAGATCAATACTGACACCAGAATGGCAGCTA
CTCTCAAGTCATTAAAACTTGTAAAGATACCGAGCATTTCAGTCCTTCTGCCTTTGGTGACGTCCGAAGTGTGT
CATACTGGAATGTGAGCAGCACACAGCATGGGGGACAGGACCCTCCAGAACACATTAGCCTCTGCCATTCTGCCA
AAAAAGTTAAGAACATATGTAGCACCTTCTCTTCTCGGAGAATCCTGACAACCAGCAGTGCCACCCAGGTTTGG
AATTCAGCAAGACTTCTTCCTCTAAGGCCAGTACATTGCAGCTGGGCTCAGCCAGGGCCACAGGAGTTGATGAAG
AGGACGTAGAAGTGTTTGATTCTTTGAAAACATGCGAGTTTTCTACAGCTAAGACCAGAATACCGTGTTTACA
GCTATAATGCATCTGAGACTTCTCAGCTCCTGTCTGTTTCAGAAGGTGAATAATTTGCACAAAGTCAGAGTTA
ATCAAAATAATCTCCAGGCTCAAGTCATTGTTGATTATTTGTGTAAGCTGAGCTCTTGCCTGCAGAGCAGCATC
CTGTCTTGCTGGGAGTACCAGCTTGTCTGCTCTGCCAGCTGAGTGTGAAGAAGATACAGCTCTTGTATACCC
AAGATCTGATCAATGTTTTGAAAGCTTTTGTCAATTTTAGGAATCCCTCACTCCCATTCAATGCTAGATGTGTATG
AGACCAAGTGTTGCCATCAGGTATGGGAGATGAATATGGATCAGCTCCTTTTGGTGGCTGATCTCTGGAGGTACT
TAGGCCGCAAAGTACCTAGGTTTTTAAACATTTTTTCTAGTTATCTTAATTTGCACTGGAAGGATCTATCCTTGT
CTCAGCTAGTTCACCTAATTTATGTTATAGGTGAAAATCGTCAGGTATCCAGGACCTAATGCAAAAATTGGAAT
CATTGATCCTTAAATATATAGATTTGATCAATTTGGAGGAGGTTGGTACCATCTGTTTGGGGTTCTTTAAATCAA
GTACTAATCTCTGAATTTGTCATGCGGAAAATTGGAGACTTGGCTTGTGCTAACATTTCAGCATCTGAGTAGTC
GCTCCTTAGTGAATATTGTTAAATGTTCCGTTTCACTCACGTGGATCACATCAATTTTCATGAAGCAGATTGGAG
AGATAGCTCCTCAGCGAATTCCTTCCCTGGGAGTTCAAGGTGTATGCACCTGACTCTTTACTGCTCGGCCCTTAC
GCTTCTGAATGAAGGAGTAATGAATGCAGTGGCTGCGTCTTTGCCTCCTAGAGTGGCACACTGTCGAAGTAAAG
ATGTTGCCAAGATTCTGTGGTCATTTGGAACCTCTGAATTATAAGCCACCCAATGCAGAAGAATTTTACTCCAGCC
TGATAAGTGAGATTCACAGAAAGATGCCTGAATTCACCAGTACCCAGAACACCTGCCACCTGCCTGCTGGGCC
TGGCATTTTTGGAGTACTTTCCAGTAGAGTTAATTGATTTGCTCTCAGTCCAGGGTTTGTGAGGTTAGCTCAGG
AGAGAACTAAGTTTGACCTCCTTAAGGAATATATACCCTCGATGGTACAGTTGGCATTGAGTGTCCAGATTACA
GAGGCAATCGTCTTAGTACTCACCTTCAGCAAGAGGGGTCTGAATTGCTGTGGTATTTAGCAGAGAAGGATATGA
ATTCAAAGCCTGAATTCTTAGAACTGTCTTTTACTGGAGACCATGCTGGGGGGGGCCCCAGTACGTCAAGCACC
ATATGATTTTGCCTCATACCCGATCTTCTGACTTAGAAGTCCAGCTTGATGTTAACCTGAAGCCATTACCATTTA
ATAGAGAAGCCACGCCGGCTGAAAATGTAGCCAAATTAAGGCTTGAGCATGTGGGAGTCAGCCTTACAGATGATT
TGATGAATAAGTTACTAAAAGGGAAAGCAAGAGGACATTTCCAGGGCAAACTGAGTCAGAGCCTGGGCAGCAGC
CCATGGAGTTGGAGAATAAGGCAGCTGTACCTCTGGGGGGCTTCTTTGCAATGTAGCAGATAAATCAGGGGCCA
TGGAGATGGCTGGCCTGTGCCCCGCAGCCTGCATGCAGACCCCAAGAATGAAGCTGGCTGTTTCAGTTCAAAACA
GGAACCAGTATTGCTATGGCTCCAGGGAICTCCTTGACTGCACAATATGAAGAGGCGGCAGCTGGCTCGGCTTG
GCTACCGTGTGGTAGAGTTATCCTACTGGGAATGGCTCCCACTACTGAAACGAACCTCGCTTAGAAAAGTTGGCGT
TTCTTCATGAGAAAGTATTCACCTCTGCTCTCTGGAAGGGCATTTAGGGGCATTTCTATGGCAAAGCTATAGGTGT
ATACTGTACCAGGTGTTGCAAAATGATTATAAAAGCCAGAATGTAAGTTTGGCGATAAAATAGTGTGTTGAGGAG
ACTTAATTGTATCCAAGGCAGGTTAGAGCTAGTGTATGTTACTGTGAATTGTAATGTAGTTGGATTGTACAAATT
ACTGCAAATGTATACATGTTACTCTTAGTAAATAATAAACATCTTAATATGTCCTACGGTC

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FIGURE 5666

MAATLKSLKLVRYRAFCSPSAFGAVRSVSYWNVSSTQHGGQDPPEHISLCHSAKKVKNICSTFSSRRILTTSSAH
PGLEFSKTSSSKASTLQLGSPRATGVDEEDVEVFDSFENMRVFLQLRPEYRVHSYNASETSQLLSVSEGELILHK
VRVNQNNLQAQVIVDYLCKLSSLPAEQHPVLLGSTSFALLCQLSVKKIQLEFDTQDLINVLKAFVILGIPHSHSML
DVYETKCCHQVWEMNMDQLLLVADLWRYLGRKVPFRFLNIFSSYLNHLHWKDLSSLSQLVHLIYVIGENRQVSQDLMQ
KLESLILKYIDLINLEEVGTICLGFFKSSTNLSEFVMRKIGDLACANIQHLSSRSLVNIVKMFRTHTVDHINFMK
QIGEIAQORIPSLGVQGVMMHLTLYCSALRFLNEGVMNAVAASLPPRVACHCRSKDVAKILWSFGTLNYKPPNAEEF
YSSLISEIHRKMPEFNQYPEHLPTCLLGLAFLEYFPVELIDFALSPGFVRLAQERTKFDLLKELYTLDGTVGIEC
PDYRGNRLSTHLQQEGSELLWYLAEKDMNSKPEFLETVFLLETMLGGPQYVKHHMILPHTRSSDLEVQLDVNLKP
LPFNREATPAENVAKLRLEHVGVS LTDLMNKLLKGKARGHFQGKTESEPGQQPMELENKAAVPLGGFLCNVADK
SGAMEMAGLCPAACMQTPRMKLAVQFTNRNQYCYGSRDLLGLHNMKRRQLARLGYRVVELSYWEWLPLLKRTRLE
KLAFLHEKVFTSAL

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FIGURE 5667

CCTGGCCGGAAACTGAGCCGTTCACTTCCGCCACCAGCCGGAAGTTTTCTGTCACTGGACGCCAAGGAGTTTTCG
GTGGCTCAGCTGGGTAACCGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTTTGTAACGGGGA
ACGCCAAGAAGCTGGAGGAGGTCGTTTCAAGATTCTAGGAGATAAGTTTCCATGCACCTTTGGTGGCACAGAAAATTG
ACCTGCCCGGAGTACCAGGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCCGCCAGGTACAGG
GGCCCGTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTTGGAGGGCTCCCCGGCCCCCTACATAAAGTGGT
TTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGGTTCGAGGACAAGTCAGCCTATGCGCTCT
GCACGTTTGCACTCAGCACCGGGGACCCAAGCCAGCCCGTGCGCTGTTCAGGGGCGCGACCTCGGGCCGGATCG
TGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTTCAGCCTGATGGATATGAGCAGACGTACGCAG
AGATGCCTAAGGCGGAGAAGAACGCTGTCTCCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGAGTACTTTGGCA
GTTTGGCAGCTTGACTTCTGCAGCTGGAGGAGGCCCTCAGGCCGGGGATCTGGGGAGGGCTAGCCCAAACCTC
CCGCATCGGGCAGGCACCCCTGAAGTACTTCCCTCAGGGTTTCCCTTTGTGAGGGTGTGAGTAGCCTCACCG
GCCTGTCTGGAGGAGCAGCTGGCTCTGCTCTGAGAACTCTGGCAAGTGGACGCCATTCTCTTGCCTTAGGATT
CACTGCTCTCTCTACAGCCGCCAGGCCTGGGGTCTGAAAGGACCTTGGGTGGTAAAGCTGTACTTGGTGGGAG
TGAGGGCGTGGGGAGGAACCATGCAAATCGCCTTCCATGGTTTTTAAATGCAGTAAATAACATTTCTGGATGAGA
CTTGTTTCCAAAATAAACAGCTATATCTGTTTTG

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FIGURE 5668

GTGCTCGGCGTTGAGCTCCTGCAGCCGCCGCCGCTGCAGTGGTTCGTCCCTGCCCTCCCCGGCCCCGGGGTGCACC
CCGCAAGGCTCCCGCTGGTGTCCCTGGAGCATGGGAGGCTGCTGAGCGTGAGTGGCGGTGTCTGGCAGGAGCTGC
GTGGCAGGGAGGGCGTCCATGGCTGCAGCCAACAAGGGCAACAAGCCCAGAGTCCGGGGTATCCGCTTTGCGGCA
GGCCACGATGCAGAAGGATCCACAGCCACGTCCACTTTGATGAGAAGCTGCATGACTCGGTGGTCATGGTCACC
CAGGAGAGTGACAGCAGCTTTCTGGTCAAGGTTGGCTTCCTGAAGATCCTGCACAGGTATGAGATTACCTTCACT
CTGCCCCCAGTGCACAGGCTGAGCAAGGATGTCCGCGAGGCACCTGTCCCCAGCCTGCACCTCAAGCTCCTCAGC
GTGGTGCCCGTCCCTGAAGGTTATAGTGTCAAGTGTGAGTACTCGGCGCACAAAGAGGGCGTCCTCAAAGAGGAG
ATACTGCTAGCCTGCGAAGGTGGCACTGGCACCTGTGTGCGCGTGACGGTGCAGGCCCGCGTCATGGACCGGCAC
CACGGCACGCCCATGCTGCTGGATGGTGTCAAGTGTGTGGGCGCCGAGCTGGAATACGACTCAGAGCACAGCGAC
TGGCACGGCTTTGACTTGAGGCCCCGAGGCCCGCCTGCCCCGGGCCCCCTCAGCCTTAAACCCCGCCTTGTCCCCCC
GACATGCTGCGTGATGGTGTGGCTTCCTCGCCCCCTCTCTGGGGTGGGTGTGGGGGTGGAGTGGCCTTGCCCCACGC
CTCTCACCTCTGCCTTCATTTGTGCTGCCACCCTGCCCTCCCTCGTCCTCCTCTCCCACTTCTCTCTCTGTG
TGCCTCAGTCTCCTGCCGGAAGAAATGGGTTGATCCCGAAAGGAGGCTGTCTGAGGAAGGGAGAGGGAGGGCCTG
GGGTGGGTCCCCCACTCCCCACCCCAAGCCACAGGGACTCCCACAGGGTCTGGGAGAGGACGGAGCTGGCTCTG
TGGCGTCGTGGCCCCATTACTGCTGCCTTGCTTCAGCCACCTCTCCTGCCCCCTCCCTAGTCCCCACTGCTGTCCA
CCATGAGTAGGAGGGAGGTGCAGTCCCCAGCCCCACCCCTCAGGTCTGTGTTACTTGGTTTTTAAAGCGACTGGT
TGGGATAGAACCCTAAAGAAATAAACTTCCAGTGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5669

MAAANKGNKPRVRGIRFAAGHDAEGSHSHVHFDEKLHDSVVMVTQESDSSFLVKVGFLKILHRYEITFTLPPVHR
LSKDVREAPVPSLHLKLLSVVPVPEGYSVKCEYSAHKEGVLKEEILLACEGGTGTCVRVTVQARVMDRHHGTPML
LDGVKCVGAEELEYDSEHSDWHGFD

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FIGURE 5670

ACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGG
AACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGATTGGAGGTTTCCAAGAGGGCCCCCACC GTGGAA
GTAACCAAGGGCGCTTCCTTGTGGGCAGCTGCAGGCCCCATGCCTCTCCTCCCTCTCTGGCAGGGCCCCATCCTG
GGCAGAGGGGCCTGGGGCTGGGGCCAGAGTCCAGCCGTCCAGCTGCTCCTTTCCCAGTTTGATTTCATAAATCT
GTCCACTCCCCTTTTGTGGGGGTGAACGTTTTTAACAGCC

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FIGURE 5671

CGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGACCTGCGCAAGGGCGAG
ATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGCGCCATCCTGGCGTCCG
GAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGACAAGCTCGAGGGCTTG
CTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGCGCTGCCGGTCAAGGGCATCATCCTCAAGGAGAAGGGCGCTG
CGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGCTTCCGCCGGCGCCAC
GGCGTGGTGTCTTGCAGCGGCGTGGCCCGCGCCCGCGCGCAAACGCTGCCCCCGCACCCCGGGCGCGCTGCC
AGTCCGGCCGCGGTGCCCTCGGAGGGCAGTGGCGGGAGCACTACTGGTTGGCGCGCTCGGGAGGAGCAGCCGCCG
TCGGTGGCCGAGGGCTACGCCCTCGCAGGACGTGTTACGCGCCACCGAGACCAGTCTATGGTACGACTTCTGCC
GACCAGGCCGCGGGGCTGTGCGGAGGCGACGGACGGCGCGTCAAGCCACCCAGCGCCTGAGCGTCTCTGCTATGC
GCCAATGCCGACGGCAGCGAGAAGCTGCCCCCGCTGGTGGCCGGCAAGTCGGCCAAGCCCCGCGCAGGCCAAGCC
GGCCTGCCCTGCGACTACACCGCCAACCTCCAAGGGTGGTGTACACCACCCAGGCCCTGGCCAAGTACTTGAAGGCC
TTGGACACCCGAATGGCTGCAGAGTCTCGCCGGGTCTCTGCTGTTGGCCGGCCGCTTGGCTGCCAGTCTTGGAC
ACCTCGGGCCTGCGGCATGTGCAGCTGGCCTTCTTCCCTCCCGGCACCGTGCATCCGCTGGAGAGGGGAGTGGTC
CAGCAGGTGAAGGGCCACTACCGCCAGGCCATGCTGCTCAAGGCCATGGCCGCGCTAGAGGGCCAGGATCCCTCA
GGCCTGCAGCTGGGTCTCACGGAGGCCCTGCACCTTGTGGCTGCCGCCCTGGCAGGCAGTGGAGCCTTCGGACATA
GCCGCCTGCTTTTCGTGAGGCTGGCTTTGGGGGTGGCCCTAATGCCACCATCACCACTTCCCTCAAGAGTGAGGGA
GAGGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAG
GAGGAGGAGGAGGAAGGGGGGGAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGTGATGTTGAT
AGTGATGAAGAAGAGGAGGAAGATGAGGAGAGCTCCTCGGAGGGCTTGGAGGCTGAGGACTGGGCCAGGGAGTA
GTGGAGGCCGGTGGCAGCTTCGGGGCTTATGGTGCCAGGAGGAAGCCAGTGCCCTACTCTGCATTTCTTGAA
GGTGGGGAGGACTCTGATTCAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGACGAT
GATGATGAGGAGGATGGTGATGAGGTGCCTGTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAG
AGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGAACACGATCTGGTTTCAT
GTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTCGAGGTCTTGGACATCAAAGCTGAGTCACTGGACCTAGC
TGTGCCCCCAACCTAGATTGGCAGCACCAACCCAGGGCAGAGGACTCTCTGGGCACCCGCTGTGCATGGAGCCAG
AGTGCAGAGCCCCAGATCCTTTAGTAATGCTTCCCTGGTCTGCAACAGGCCCGGTACCTCGGCCGGGCCCGG
GGCTGAGGTCAGCCTCACTGCCTGCTTATTGCCTCTTTCTCAGAATCCTCTTTCTCCCCATTTGGCCCTGGGCT
CAGGGGACCAGGTGGGGCGGGTGGGGAGCTGTCCGGTGCTACCACACCGTGCCCTCAGTGGACTAACCACAGCAG
CAGCCAGGGATGGGCCCTGGAGGTTCCTGGCCGGAGAGTGCTCTCCCTCTGCCATCCACGTCAGGTCTTTGGT
GGGGGGACCCCAAAGCCATTCTGGGAAGGGCTCCAGAAGAAGGTCCAGCCTAGGCCCCCTGCAAGGCTGGCAGCC
CCCACCCCAACCCCAAGGCCGCTTGAGAAGCACAGTTTAACTCACTGCGGGCTCCTGAGCCTGCTTCTGCCTG
CTTTCCACCTCCCCAGTCCCTTTCTCTGGCCCTGTCCATGTGACTTTGGCCCTTGGTTTTCTTTCCAGATTGGAG
GTTTCCAAGAGGCCCCCAACCGTGGAAAGTAACCAAGGGCGCTTCTTGTGGGCAGCTGCAGGCCCATGCCTCTC
CTCCCTCTCTGGCAGGGCCCCATCCTGGGCAGAGGGGCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTC
CTTTCCAGTTTGATTTCAATAAATCTGTCCACTCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

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FIGURE 5672

MDDFTASNGWLD RFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGSGGSTTGWRAREEQPPSVAEGYA
SQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLPCDYT
ANSKGGVTTQALAKYLKALDTRMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPPGTVHPLERGVVQQVKGHY
RQAMLLKAMAALEGQDP SGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGPNATITTSLKSEGE EEEEEEE
EEEEEEEGE EEEEEEEEGE EEEEEEGGE EELGEEEEVEEEGDVDSDEEEEEDEESSEGLEAEDW AQGVVEAGGSF
GAYGAQEEAQCP TLHFLEGGEDSDSDSEEDDEEEDDEDEDDDDDEEDGDEVFPVPSFGEAMAYFAMVKRYLTSFP
IDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

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FIGURE 5673

ATGGGCCCCAAGAGGCGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGAC
CTGCGCAAGGGCGAGATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGC
GCCATCCTGGCGTCGGAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGAC
AAGCTCGAGGGGCTTGCTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATCATCCTC
AAGGAGAAGGCGCTGCGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGC
GTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGAC
CGCGTGCAGAGCCACATCCTCCACTTGGAAACACGATCTGGTTTATGTGACCAGGAAGAACCACGCCAGGCAGGCG
GGAGTTCGAGGTCTTGGACATCAAAGCTGA

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FIGURE 5674

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCCTGGCCCTGTGGCTCTTCTCCCTCCCTCCCTCCCTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCCCA
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGGCCCTCCAGCCAGCCTTCTGCCGGCCCCGCCGCGATG
GAGGTGCCCCAGCCGGAGCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCG
GGCCACCTCCCGGGCCTCCTGCTGGGATCTCATGGCCTCCTGGGGTCCCCGGTGCGGGCGGCCGCTTCTCGCCG
GTCACCACCCTCACCCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGAGCCGCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCCTCCCTGTCGTCTGAATCCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTGGA
AACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCAACTCCCAGGCGCCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGAGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGTGGGAGCTCTCGGGAAGAGGAGGGGGCATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCTCCTCTCCCATCTTGGCTGCAGGATGGATTTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGAGGGAAGCCTTTGCCAGAGACCCAGCTCG
GCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTGCG
TTCTCTCTGACCCCTGCAGAGGGGGATACTGAGGAAGATGATGGATTTGTGGACATCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCCAGGCATGGAGAGTCTATTAGTGCCCCACTGGTCAAGACCTTGGAAGGAAGAG
GAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCGTGAGAATAAGCGGAGGCGGAGCGTGACC
CCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCGTCTCCGCTCAAAATCACTGTGTCACGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCTACAGACAGTA
GACGGAAGACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTCAGCAAC
ATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG
AACTTGCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTCTACTACCCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTC
CCTCAGCACCCGAACCTTGTGTAACCCAGGACTACCGGCCATGAACCACGAGGCCTTCAAGGATGAGCTAAAG
ACCTTCCGCTCAAGACTCGCAGCTGGGCTGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGAGGGGCTGCGCCAGTCTGCTACCTCCCTTGCTTTGAGGCCTGAAGCCAGCTGCCCTATGGGCTGCGCG
GCTGAGGGCTGCTGGAGGCTCAGGTGCTGTCCATGGGAAGATGGTGTGGGTGTCTGCTGTCTGCCCCAGC
CCAGATTCCCTGTGTCTATCCCATCAFTTTCCATATCCTGGTGCCCCCACCCCTGGAAGAGCCCAGTCTGTTGA
GTTAGTTAAGTTGGGTTAATACCAGCTTAAAGGCAGTATTTTGTGTCTCCAGGAGCTTCTTGTTCCTTGTAG
GGTTAACCTTCATCTTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTGAGCTGAGGCTGGGGGAGAGCCGTG
GTCCCTGAGGATGGGTGAGAGCTAACTCCTTCCCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCCGGC
CAGGGCTGCCCCAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCTCTTTTCCCTTTCTGT
CCCACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCTATTTTCACTGTGTGCTTGGT
CTGTTTGACTTTACGCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCTGTCAAATATCAGTTACCCAC
TCGGTCCCAGTTTTTGTGCCCCAGAAAGGGATGTTATTATCCTTGGGGCTCCCAGGGCAAGGGTTAAGGCCTGA
ATCATGAGCCTGCTGGAAGCCCAGCCCTACTGCTGTGAACCTGGGGCTGACTGCTCAGAACTTGCTGCTGTC
TTGTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCCCTTGCAT
ACCCAAACCAGGTGGGAGCGTTTTTGTGAGCATGACAGCCTGCAGCAGGAATATATGTGTGCCTATTTGTGTGGA
CAAAAATATTTACACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTACAGAAGCAGCTAAACCAAGGACTGAGC
ACCTCTGGATTCTGAATCTCAAGATGGGGCAGGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCCT
TGGTTCAATAAAGCACTGAGCAAGTTGAG

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FIGURE 5675

GGGTCTGTCTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGGGACGGTCTTCCAGCCTCCGACCGCCCTCC
AATTTCTCTCCACTTGCAACCTCCGGGACCATCTTCTCGGCTATCTCCTGCTTCTGGGACCTGCCAGCACCGTT
TTTGTGTTAGCTCCTTCTTGCGGACCAACCATGAGCTCCCAGATTGTCAAAATTATTCACCGACGTGGAGGC
AGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGACCG
CGATGATGCGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGACCGAGGAGAAGCGCGAGGGCTACGAGCG
TCTCCTGAAGATGCAAAACCAGCGTGCGCGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTG
GGGTAAAACCCCAAGATGCCATGAAAGCTGCCATGGCCCTGGAGAACCCCATCTCTGTGACTTCCTGGAGACTCA
CTTCCTAGATGAGGAAGTGAAGCTCATCAAGAAGATGGGTGACCACCTGACGAACCTCCACAGGCTGGGAGGCCC
AGAGGCTGGGCTGGGCGAGTATCTCTCGAAAGGCTCACTCTCAAGCACGTCTAAGAGCCTTATGAGCCCAGCGA
CTTCTGAAGGGCCCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTA
ACTACCCTAA

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FIGURE 5676A

GGGGAGGAAGAAAGGCGAAGGCAAGGCGAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAATGACTACAGCCACCAAACGTCCCTAGT
CCCATGTGGACAAGATAAATACATTTCCAAAATGAACCTCTCTTGCATCTGAAGACCTACAACCTGTACTATGA
AGGCCAGAATTTACAGCTCCGGCACCCGGGAGGAAGAAGACGAGTTTATTGTGGAGGGGCTCCTGAACATCTCCTG
GGGCTGCGCCGGCCCATTCGCCTGCAGATGCAGGATGACAACGAACGCATTTCGACCCCCCTCCATCCTCCTCCTC
CTGGCACTCTGGCTGTAACCTGGGGGCTCAGGGAACCACTCTGAAGCCCCCTGACTGTGCCCAAAGTTCAGATCTC
AGAGGTGGATGCCCCGCCGGAGGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCCCTGCAGGA
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGGTGCGTCGCCGTGGCAATGTGAGGACGCCTAGTGA
CCAGCGGCGAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAGACATCCGTGTTACACAC
AGCCTATGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGTCCTGAAGCTGCTGCTCAA
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCCTTGACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCCGCTGATTGCCCGAATCCTCCAGGGCCCATGTGAGCAGATCTCCAAAGTGTTCCTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCAGTATATAAAGTTCGAGATGCCGGTACTTTAAAG
CTTCATTGAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTGCTCCGGCT
AATGATTCGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATCTGAGCCATGAGAACGAGGGGATCTGG
GCACCCAGGAACCGCCATTGCCCATAGACCCCCAGGAAGCTAGGCACCTTCTTTCCATGGAAACATTTAGACA
CAAACCTCCCCAGCTCCGGCCAAGCCATCATTTGCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCCTTTTTTCTGCTCACAAGGACTTTTGATTATAGTTATAAGGAGGACCCAAAATGTG
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCCTACCTGATACTTTCACATGTAATTAATTCCA
GGCAACCAGCACAAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAATCAGAGGAGCCACTGATCT
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCCTCTCAAGTGCCAGGGAGCAGCCACACGTCTGTCTGTGTTTAG
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTTGTTTATATGTTGGTAGAAATCTCCCTGTATGCCTAGA
AGGATCAGTGAATGTAAGAGCCTTGGAATTAACAAAATAACAGCCACATAACCTTGCGGCAAGTCTGATGGAAA
GAAAAAGATAAACCATCCGTGGGGTAGATGCAATAAGCCCACGTATTTTTTACACTGGAAACGTTGATTGTTTTAA
ATGACAAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG
CTACCTTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCCT
TGAGTGGAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGCGTACACAGTGCTGACCAGCTAGTGTGGCCAG
GGCCTGGTGGCCTGGTGGCCAGGAAGTTTCAGGTTGAAGGGAAATGTGAGGCTACCTGCAGATATGACAGGTGC
CTTGAACGCAGCCCATCTTCATGTCATCAAAGGTCTTCTGCACTTGAAGCTGGGGCGATGTTTGCAGTCAAGAC
CATTCTTTTCCAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGAATGAAGCCT
CATCTTGCTACTGAGTGTGGGGTTCAGGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTTGAGGAGG
GAGACAGATGCTTGGACCTGGGTGCCCTGGCTATGGAGATTGACCAAGCAAGATCAGGAGCTCCTGATAGCAGGCG
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCCATCTCTTCTCCACCTTCTCTCCACAGAATGTTTGCAGAGCTG
GGCAGTTGAGGAAAGGACAGCCCCCTGGTTGGTGCCCTCAAAGGAAGGTGGACTTTTTTGGTGGAGACGTTTCTGC
CCTGGGCACCCCTCCTGCCCCGATTACATCCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
TGCAGAAAGATGGCATGCGGCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCTCCATAGGGACAG
CAGCACCAGCCCTGTGGGGCATGGAGTGAAGCCAGAGGGCTTCTGCAAGCTGCACAGAAGTGGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCTTTGTTACAGCTGGGAAAGAAGAGTTCTGTGAATGCAACACCTCC
TGAGTTTTGCAATTGAGAAAATGATTTGGAGAAGTCTCTTCTGTTAATTTTTATTTTGAATGTTTACAGGGCCTTA
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAAGTACTAACCCTAGCTCTT
ACTGGACAGCGATTTCTGGCTTATAAGAGTTCTCTTTGATTTGCACTAGCACTACGATAGTGTAGATGGGGAAA
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTAAAGATG
GGAGGTGAGGAGGTGGAAGTGAGAGGAGATCCCATCTCACACAACACACTTCCACGTAATGCAGACCACACTTTT
CCATTTTGTCTGCTGCTCCTTGGAGAGGTCACTTCTCACGTCTTAAGAACCCTGATCAGAAATTTTGAAGGGTCTT
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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FIGURE 5676B

TGCAGTTTTGAACTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTTGTAAGGAGCAGTTTAGCTGCATCTGTCTCCCCAC
CACCCCCACCCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGAATTAAGCACAAAGGTCACATTCTCTGTGATCACATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGTG
GGGATTATCTTGGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAGAACGTGCACAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCCTCGGGTCAAGATTTTGATCTGAGACATGCTGATGCTTCAAGGAGAAAATATTTTACAAATCCTC
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCCTAGAAACCTCTAGGTAAACACATTTTATCCTAATATCGGTA
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG
TTACTTCAAAGTGTGAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT
CTTTAAAGAAACCACCACCAACAACAAAACAACCAAAAACCATGTTTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACAGATACATCGCCGAGAGAGGTTTCTTTCTTTCTTTTTTTTTTTTTTTGAGACAGAGTCTGGTTCTG
TTTCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCCTCTGGGGTTCAAGTGATTCTCCT
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTTGTGTGGTTTTAGT
AGAGGTGGGGTTTTACCATCTTGGCCAGGCTGGTCTTGAACCTCTGACCTCGTGATCCACCCGCCTAGGCCTCCC
AAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA
GTGTCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT
GATTTCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAATAGAAAGCTCTGCCCTA
TCACAAGGGGGGTGTTGAAGCGCCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAAGATGCACAAGCTGTGGTG
GGAAACCCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT
AATTGCTAGCGTTTCTGAAGGGTTTTCCCAATTGTTTTAGCCTTGTGAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTTGGTTCTGAACTTACACACTGATGCGTTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTTGTAACTTTTGATATGTTTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCACTTTTCAAAGAG

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FIGURE 5677

MDYSHQTSLVPCGQDKYISKNEALLHLKTYNLYYEGQNLQLRHREEEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSSTDSRGLKPLQEDTPQLMRTRSDVGVR
RRGNVRTPSDQRRIRRHRSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAEEFALYV
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSFIQKLQEEEDREVKK
LMRKYTVLRLMIRQRLEEIAETPATI

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FIGURE 5678

GTCTCAGCCGGTCGTCGCGACGTTGCGCCGCTCGCTCTGAGGCTCCTGAAGCCGAAACCAGCTAGACTTTTCCTCC
TTCCCGCCTGCCTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTGAGGCGCGCCTGGTCCAGGGCTCCATCC
TCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAAACC
TGCAGAGCATGGACTCGTCCACGTCTCTTTGGTGCAGCTCACCCCTGCGGTCTGAGGGCTTCGACACCTACCGCT
GCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAAGTATGTCCAAAATACTAAAATGCGCCGGAATGAAGATA
TCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAGTTT
CAGACTATGAAATGAAGTTGATGGATTTAGATGTTGAACAACCTTGGAATTCCAGAACAGGAGTACAGCTGTGTAG
TAAAGATGCCTTCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTTCT
GTGCAAAAGACGGAGTGAAATTTTCTGCAAGTGGAGAACTTGGAATGGAAACATTAAATTGTCACAGACAAGTA
ATGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAGTTCAACTAACTTTGCACTGAGGTACC
TGAATTCTTTACAAAAGCCACTCCACTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGTTG
TAGAGTATAAAATTGCGGATATGGGACACTTAAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGATCTT
AGGCATTCTTAAAATTCAAGAAAATAAACTAAGCTCTTTGAGAAGTCTTCTAAGATGCCAGCATATACTGAAG
TCTTTTCTGTCACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTTCTGTAAATAACCTATTTTTTTCT
CTATTCTCTGCAATTTGTTTAAAGAATAAAGTCCAAAGTCAGATCTGGTCTAGTTAACCTAGAAGTATTTTTGTC
TCTTAGAAATACTTGATTTTTATAATACAAAAGGGTCTTGACTCTAAATGCAGTTTTTAAGAATTGTTTTTGAA
TTTAAATAAAGTTACTTGAATTC

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FIGURE 5679

CCAGGAGGCACGCTGGTTTTCCGGGGCCGCTCCATCGCGCCTTCTCTCGCGCTCGCTTCTCCGGTCCAGCCGC
CATCTTCCTTTCCGCACAGGGGCCCGAGCGGGGCCATGCAGCCAACGCTGCTTCTCAGCCTCCTGGGAGCCGT
GGGGCTGGCGGCTGTCAATTCCATGCCAGTGGATAACAGGAACCACAATGAAGGAATGGTGA CTGCTGCATCAT
TGAGGTCTCTCAAATGCCTTGTCGAAGTCCAGCGCTCCACCCATCACCCCTGAGTGCCGCCAAGTCCTGAAGAC
GAGTAGAAAAGACGTCAAAGACAAAGAGACA ACTGAAAATGAAAACACAAAGTTTGAAGTAAGATTGTTAAGAGA
CCCAGCTGATGCCTCGGAAGCCCACGAGTCCTCCAGCAGGGGAGAGGCAGGAGCCCCAGGGGAGGAGGACATCCA
AGGCCCAACAAAGGCAGACACAGAGAAATGGGCAGAGGGAGGCGGGCACAGCCGAGAGCGAGCGGATGAGCCCCA
GTGGAGCCTCTATCCCTCCGACAGCCAAGTCTCTGAAGAAGTGAAGACACGCCATTCTGAGAAGAGCCAGAGAGA
GGATGAGGAGGAGGAGGAGGGAGAGAACTATCAAAAAGGGGAGCGAGGGGAAGATAGCAGTGAAGAGAAACACCT
TGAAGAGCCAGGAGAGACACAAAACGCTTTTCTCAATGAAAGAAAGCAGGCTTCAGCTATAAAAAAGAGGAGTT
AGTGGCCAGATCGGAAACACATGCTGCCGGGCATTCTCAGGAGAAGACACATAGCCGAGAGAAGAGTAGCCAGGA
GAGTGGAGAGGAGGCAGGGAGCCAGGAGAATCACCCCCAGGAGTCTAAAGGCCAACCCCGAAGCCAGGAAGAATC
TGAGGAAGGTGAGGAAGATGCCACCTCTGAGGTGGACAAACGACGCACGAGGCCCAGACACCACCACGGGAGGAG
CAGGCCCCGACAGGTCTCTCAAGGAGGGAGTCTTCCCTCTGAGGAAAAGGGACACCCCCAGGAGGAATCTGAGGA
GTCAAACGTCAGCATGGCCAGTTTAGGGGAAAAGAGGGGACCACCATTCAACCCACTACAGGGCTTCAGAGGAAGA
ACCTGAATATGGAGAAGAAATAAAGGGTTATCCAGGCGTCCAGGCCCCCTGAGGACCTGGAGTGGGAGCGCTATAG
GGGCAGAGGAAGTGAAGAATACAGGGCTCCAAGACCTCAGAGTGAGGAGAGTTGGGATGAGGAGGACAAGAGAAA
CTACCCACAGCTTAGAGCTTGATAAGATGGCACATGGATATGGTGAAGAAAGTGAGGAAGAGAGGGGCCCTTGAGCC
GGGAAAGGGACGCCATCACAGAGGCAGGGGAGGGGAGCCACGTGCCTATTTTCATGTCTGACACCAGAGAAGAGAA
AAGGTTCTTGGGTGAAGGACACCACCGTGTCCAAGAAAACCAGATGGACAAGGCAAGGAGGCATCCACAAGGTGC
GTGGAAGAGCTGGACAGAAATTATCTCAACTACGGTGAGGAAGGAGCCCCAGGGAAGTGGCAGCAGCAGGGAGA
CCTG CAGGACACTAAAGAAAACAGGGAGGAAGCTAGGTTTCAAGATAAACAATATAGCTCCCATCACACAGCTGA
AAAGAGGAAGAGATTAGGGGAAGTGTTCACCCATACTACGACCCTCTCCAGTGGAAGAGCAGCCATTTTGAAAG
AAGAGACAACATGAATGACAATTTTCTCGAGGGTGAGGAGGAAAATGAGCTGACCTTGAACGAGAAGAATTTCTT
CCCAGAATACAACTATGACTGGTGGGAGAAAAAGCCCTTCTCTGAGGATGTGAACTGGGGGTATGAGAAGAGAAA
CCTCGCCAGGGTCCCCAAGCTGGACCTGAAAAGGCAATATGACAGGGTGGCCCAACTGGACCAGCTCCTTCTACTA
CAGGAAGAAGTCAGCTGAGTTTCCAGACTTCTATGATTCTGAGGAGCCGGTGAGCACCCACCAGGAGGCAGAAAA
TGAAAAGGACAGGGCTGACCAGACAGTCCTGACAGAGGACGAGAAAAAAGAACTCGAAAACCTGGCTGCAATGGA
TTTGGA ACTACAGAAGATAGCTGAGAAATTCAGCCAAAGGGGCTGACTGTCAATTGGAGCGGTGGGCACTGTTAAG
AAGCAGCCATCACATGATCTGTTTTTACCACCTTCACTGAAAGACACCATTTATATACCCAAGGGCAGAAAGTAG
AACTTACTATTCTAATAATGTTTGACACAATTGGAATTGTCTTTAATTTCTGTCAGAATGCTATTGAAAATGTGA
ATTGCATGACTTGTAGCATATTCTTTTCTGCAAAATAGACATATTAACATGCTTATGACAATGACTGTGCTACTG
TCTTTGGAAAAATGTTTGTCTCAGTTGGAAATAATAAAAGATTACCTGAGACC

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FIGURE 5680

MQPTLLLSLLGAVGLAAVNSMPVDNRNHNEGMVTRCIIIEVLSNALS KSSAPPITPECRQVLKTSRKDVKDKETTE
NENTKFEVRLLRDPADASEAHSSSRGEAGAPGEEDIQGPTKADTEKWAEGGGHSRERADEPQWSLYPSDSQVSE
EVKTRHSEKSQREDEEEEEGENYQKGERGEDSSEEKHLLEPGETQNAFLNERKQASAIKKEELVARSETHAAGHS
QEKTHSREKSSQESGEEAGSQENHPQESKGQPRSQEESSEEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLP
SEEKGHPQEESSESNVSMASLGEKRDHSTHYRASEEEPEYGEEIKGYPGVQAPEDLEWERYRGRGSEERYRAPRP
QSEESWDEEDKRNYPSELDKMAHGYGEESEEEERGLEPGKGRHHRGRGGEPRAYFMSDTREEKRFLGEGHHRVQE
NQMDKARRHPQGAWKELDRNYLNYGEEGAPGKWQQQGDLDQTKENREEARFQDKQYSSHTAEKRKRLGELFNPY
YDFLOWKSSHFERRDNMNDNFLEGEENELTLNEKNFFPEYNYDWWEKKPFSEDVNWGYEKRNLARVPKLDLKRQ
YDRVAQLDQLLHYRKKSAEFPDFYDSEEPVSTHQEAENEKDRADQTVLTEDEKKELENLAAMDLELQKIAEKFSQ
RG

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FIGURE 5681

ATGCTAGCCTTGCGCGTGGCGCGCGGCTCGTGGGGGGCCCTGCGCGGCGCCGCTTGGGCTCCGGGAACGCGGCCG
AGTAAGCGACGCGCCTGCTGGGCCCTGCTGCCGCCCGTGCCCTGCTGCTTGGGCTGCCTGGCCGAACGCTGGAGG
CTGCGTCCGGCCGCTCTTGGCTTGCGGCTGCCCGGGATCGGCCAGCGGAACCACTGTTGCGGGCGCGGGGAAGGCG
GCTCCCAGGCCAGCGGCCGGAGCGGGCGCCGCTGCCGAAGCCCCGGGCGGCCAGTGGGGCCCGGCGAGCACCCCC
AGCCTGTATGAAAACCCATGGACAATCCCGAATATGTTGTCAATGACGAGAATTGGCTTGGCCCCAGTTCTGGGC
TATTTGATTATTGAAGAAGATTTTAATATTGCACTAGGAGTTTTTGCTTTAGCTGGACTAACAGATTTGTTGGAT
GGATTTATTGCTCGAAACTGGGCCAATCAAAGATCAGCTTTGGGAAGTGCTCTTGATCCACTTGCTGATAAAATA
CTTATCAGTATCTTATATGTTAGCTTGACCTATGCAGATCTTATTCCAGTTCCACTTACTTACATGATCATTTCG
AGAGATGTAATGTTGATTGCTGCTGTTTTTTATGTCAGATACCGAACTCTTCCAACACCACGAACACTTGCCAAG
TATTTCAATCCTTGCTATGCCACTGCTAGGTTAAACCAACATTTCATCAGCAAGGTGAATACAGCAGTCCAGTTA
ATCTTGGTGGCAGCTTCTTTGGCAGCTCCAGTTTTCAACTATGCTGACAGCATTTATCTTCAGATACTATGGTGT
TTTACAGCTTTTACCACAGCTGCATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTTCAGGTGATAAAA
GACTTGA

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FIGURE 5682

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHCSGAGKA
APRPAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAPVLGYLIEEDFNIALGVFALAGLTDLLD
GFIARNWANQRSALGSALDPLADKILISILYVSLTYADLIPVPLTYMIISRDVMLIAAVFYVRYRTLPTPRTLAK
YFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAFTTAASAYSYYHYGRKTVQVIK
D

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FIGURE 5683

GCCTGGCTCCGTTTCCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCGTGCGCCTTCTACC
TCGCTGTTTCGGTTTTTCCTGGCTCCTCGGCCCTTTTCTCCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCT
GGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAATCATACAATTTATATCAACA
ATATGAATGACAAAATTAAAAAGGAAGAATTGAAGAGATCCCTATATGCCCTGTTTTCTCAGTTTGGTCATGTGG
TGGACATTGTGGCTTTAAAGACCATGAAGATGAGGGGCGAGGCCTTTGTTCATATTTAAGGAAGCTGGGCTCATCCA
CAAATGCCTTGAGACAGCTACAAGGATTTCCATTTTATGGTAAACCAATGCGAATACAGTATGCAAAAACAGATT
CGGATATAATATCAAAAATGCGTGGAACCTTTTGCTGACAAAGAAAAGAAAAAGAAAAAGCCAAAAGCTG
TGGAACAGACTGCAACAACCACAAACAAAAGCCTGGCCAGGGAACTCCAAATTCAGCTAATACCCAAGGAAATT
CAACACCAAATCCTCAGGTCCCTGATTACCCTCCAACTATATTTTATTCCTTAATAACTTACCAGAAGAGACTA
ATGAGATGATGTTATCCATGCTGTTTAATCAGTTCCCTGGCTTCAAGGAAGTACGTCTGGTACCAGGGAGGCATG
ACATTGCTTTTGTGTAATTTGAAAAATGATGGGCAGGCTGGAGCTGCCAGGGATGCTTTACAGGGATTTAAGATCA
CACCGTCCCATGCTATGAAGATCACCTATGCCAAGAAATTAACATTTGGGATAGTCGTCTTTAAAAGACTTGGTGT
TATTTACAGTGTTTGTGTTTGGATAACATTTGGCTGGGTCAATTTAATAGTTAGAGATGAGGAGGAGTAAAAGTGAA
ATTTTTGTGAAGGACTTAAATTATCCAGTGTCTTTAGCCTTGGTGAAGTATGAAATACGAAGGCCTTAATTTT
GTACAATAAACTTTTATTTGTATTCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5684

MDIRPNHTIYINNMNDKIKKEELKRSLYALFSQFGHVVDIVALKTMKMRGQAFVIFKELGSSTNALRQLQGFPFY
GKPMRIQYAKTDSDIISKMRGTFADKEKKKEKKKAKTVEQTATTTNKKPGQGTENSANTQGNSTPNPQVPDYPPN
YILFLNNLPEETNEMMLSMLENFQFPGFKEVRLVPGRHDIAFVEFENDGQAGAARDALQGFKITPSHAMKITYAKK

FIGURE 5685

GAGAGGCGCCAGGCGCGCGCGCGCGGCCAGCTTCTTCTTCTCGCACAGCCAGGCGGCCCTGCTCGAGT
CCC CGCTCGCCATGGCCCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGCTGAGATCTGTAT
CTGTGGACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAAT
TTACAGTGCACACAAAGACCACACTGCCACGTTTCAGAGCCAGAGTTTTCTGTTACAAGGCAACATGAAGACT
TTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATTCCACCTGCTCCTACGAAGC
CCGACTTTGATGGTCTCTGAGAGAAGATGCAGAACTGGGAGAAGGTGAAGGGTCTATGACCAAAGAAGAATTTG
CCAAGATGAAACAAGAAGCTGGAAGCTGAGTATCTCGCTGTGTTTAAAGAAGACTGTGTCTCCCATGAAGTCTTTC
TTCAGCGGCTTTCTTCTCACCCGTCTCTCAGTAAAGATCGCAACTTTCATGTTTTCTGGAATATGATCAGGATC
TAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTTCAAAGTGTGGTGAAAAGTGTGTATGAAG
TCCTTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAGCAAGAGAAGAACTTCCTTATTAATACTATTACAATA
GGATCAAAGATTCTTGTGTGAAAGCTGACAAAATGACCAGATCTCATAAAAAATGTTGCCGATGACTATATCCACA
CCGCAGCCTGCTTACATAGCCTGGCTTTAGAAGAGCCACAGTCATCAAAAAAGTACCTATTGAAGGTTGCTGAGC
TATTTGAAAAAATAAGGAAAAGTAGAGGGTCGAGTTTCATCAGATGAAGATTTGAAGCTAACAGAGTCTCTCCGAT
ACTACATGCTCAACATTGAAGCTGCTAAGGATCTCTTATACAGACGCACCAAAGCCCTCATTGACTATGAGAAGT
CAAACAAAGCTCTGGATAAGGCCCGGTTAAAGAGCAAAGACGTCAGTTGGCTGAGGCACACCAGCAGGAGTGCT
GCCAGAAATTTGAACAACCTTCCGAATCTGCAAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGGCAGCAT
TTAGAAAAGAACTAATTGAAATGTCTGAACTGGAATAAAAAATGCCAGGAACAATGTCTCCCTTTTGAGAGCT
GTATTGACTTGTTCAAGAATAACTGATATGCTTCACTCAGAAGAAAAAGAAATGAATGTGAAAGAAAGCCAAGCA
TCACTTGCACTTAAATCATTACCACGGAAGATATATTAGCTTCAACTTTAGTTTAAAAATTATGTGAATAAATATT
TTGATTTCTACAAATCTTAACATTTAACCATGTTGGTTTAAAAATATTATTGCTTGCTACTTGGACATAACTAAT
TTTTCTTGTCATTTAATACCTCTGGGCAGAAATCCAAATACTGGGTCTCCCGTAGTTTCGTCTTTAGTTACTAA
GAAAGGTGTAGGACACATTAGCCTTCTGGAACAAGTAGAAGCCATCACCTGGCCCATGTCCCTACAAACCCAT
GATTGTCAGGGAGGTGCCAGTTACAGCAGGTGATTTCAGCTACTTGAGGTGCGTAACAGACCTTCCATTCCCTACT
GAAGGTGGGGTTTGTGTTTTTGTGTTTTGCCCCGTTTACTCCACTGGTAGTCATCTGGTGTGTTGTACTATAACAACAG
CAAGAAAAATCTCATTTATCTTTATATACTCTTTTGACCTCCCTTTTTTTTAGTCGAGATATAAATATTGAGGGGAG
AGAAATATCTACAGGTATATATGGAAACAAATAATGTGGTCTGCTTTATAAGATGGCCAGATCTACATTAGGAAA
AGTATAAGCCCCCTCCCTAATGGCCGCTGGGGGGTGAGGGCGGTGTGTTGTATGTCTTTGGGTGTTTGTTTTTT
ATAAAGCATATAATAAAAAATAATCGTGCTACT

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FIGURE 5686

MAAVPELLQQQEEDRSKLRSVSVDLNVDP SLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPTKPDFDGPREKMQKLGEGECSMTKEEFAKMKQELEAEYLAVFKKTSSHEVFLQRL
SSHPVLSKDRNFHV FLEYDQDLSVRRKNTKEMFGGFFKSVVKSADVLFTGVKEVDDFFEQEKNFLINYYNRIKD
SCVKADKMTRSHKNVADDYIHTAACLSLAL E EPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRY YML
NIEAAKDLLYRRTKALIDYENS NKALDKARL KSKDVKLAEAHQQECCQKFEQLSESAKEELINFKRKRVA AFRKN
LIEMSELEIKHARNNVSLQSCIDLFKNN

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FIGURE 5687

GAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCCTCCTCGTGGAGCGGAGCAAGGGTAG
GCCCCACGTGGCGTCTTTGCCCCGGCTCCAAGATGGACGGCAGCGGGGACTGGGAGGCTGCTCTGGGGGAGCACGT
GGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGGAGGCCCTCCTGCCGCCGTGCGGCAG
GGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCGAGAGGCGCCAGGCGGCGGCGGCGGCCAGCTTCTTC
TTTCTCGCACAGCCAGGCGGCCCCCTGCTCGAGTCCCGCGTCGCCATGGCCGCGGTTCCCGAGTTGCTGCAGCAG
CAGGAGGAGGACCGCAGCAAGGTGAGGTCTTCCAGCCTCAGACTCCTGGGCGGGCGGCCCTGCGAGCTCCGGGG
TCGCTGCATTCTTTCCCTTGCGCGTCCATAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGCGGGAAGCACCCGTG
AGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGATGTCCCGGATTCTA
TTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGACTTGGAGAGATGATC
TCTGGAGACCCCGGAATGTTCTTTTAAACCTTTCCTCGGCTTCGTGGTGACCAGTAGGTGAACGTGAAATTGAC
TTAACATGCGACAGACCAGTTTGGTTTGTGCCCCAAAATACCCTCCTTCCCCCACCTTTTACTGAGAAGACT
TTTTTGGGGGGGGGGCCCCAAACAACCTGGGAAATTGCATCAAGCGTCCGAACATGCTGCTTACAACCTTAGAAAC
GCAAAATGCGTTGTTGTGGGAGTTGTGTAATTTTGTAGTAGGTGCTCAAATACTTGCTGAACTTGGTGTCTATTTT
TAAGTCTTGCCCATTTGATGTAAACTGTCCCTAGGTCACGTGTATCTTGAGGTCTAAAAGATTATTTATGCAATAA
ATTGAAATTCCTATAGCCAATTAAAGATTTC

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FIGURE 5688

CTTTCTCTAGACGCGTCTTGCTGGGAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCT
CCTCGTGGAGCGGAGCAAGGGTAGGCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTG
GGAGGCTGCTCTGGGGGAGCACGTGGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGG
AGGCCTCCTGCCGCCGTGCGGCAGGGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCCGAGAGGCGCCCAGGCGG
CGGCGGCGGCGGCCAGCTTCTTCTTTCCTCGCACAGCCAGGCGGCCCTGCTCGAGTCCCGCGTCGCCATGGCC
GCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGC
GGGAAGCACCCGTGAGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGA
TGTCCCGGATTCTATTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGAC
TT

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FIGURE 5689A

GAGGGGTCGAGCCTGGGCAGTACAGGCGGCGGTGCGCACTCTGCGGCGGCCTCTGCGCCTCGGGCGGGCGGGAGA
GAGAGGCCGCGGCCAGCGTGGGGATGTCTAGGAGCTCGAAGGTGGTGCTGGGCCTCTCGGTGCTGCTGACGG
CGGCCACAGTGGCCGGCGTACATGTGAAGCAGCAGTGGGACCAGCAGAGGCTTCGTGACGGAGTTATCAGAGACA
TTGAGAGGCAAATTCGGAAAAAGAAAACATTTCGTCTTTTGGGAGAACAGATTATTTTGAAGTACTGAGCAACTTGAAG
CAGAAAGAGAGAAGATGTTATTGGCAAAAGGATCTCAAAAATCATGACTTGAATGTGAAATATCTGTTGGACAGA
CAACACGAGTTTGTGTGTGTGTGTGTGATGGAGAGTAGCTTAGTAGTATCTTCATCTTTTTTTTTTGGTCACTGTCC
TTTTAACTTGATCAAATAAAGGACAGTGGGTCATATAAGTTACTGCTTTTCAGGGTCCCTTATATCTGAATAAAG
GAGTGTGGGCAGACACTTTTTGGAAGAGTCTGTCTGGGTGATCCTGGTAGAAGCCCCATTAGGGTCACTGTCCAG
TGCTTAGGGTTGTTACTGAGAAGCACTGCCGAGCTTGTGAGAAGGAAGGGATGGATAGTAGCATCCACCTGAGTA
GTCTGATCAGTCGGCATGATGACGAAGCCACGAGAACATCGACCTCAGAAGGACTGGAGGAAGGTGAAGTGGAGG
GAGAGACGCTCCTGATCGTCAATCCGAGGATCAGGCATCAGTGGACTTATCGCACGACCAGAGTGGGGATTCCC
TCAACAGTGATGAAGGAGACGTGTCTTGATGGAGGAGCAGCTGTCTACTTCTGTGACAAGTGCCAAAAATGGA
TACCAGCCAGTCAGCTGAGGGAACAGCTCAGTTACCTTAAGGGTGATAATTTTTTTAGGTTTACTTGTTCGGATT
GCTCAGCAGATGGCAAGGAGCAGTATGAAAGGCTGAAGCTGACATGGCAGCAAGTCGTATGTTGGCAATGTACA
ACTTGTCTCTGGAAGGAAGTGACGTCAAGGTTATTTTCAGGTGGAAAGAAGATATCTGTGCTTTTATTGAGAAAC
ATTGGACTTTTTTACTAGGGAATAGGAAAAAGACGTCTACCTGGTGGAGCACCGTGGCAGGTTGCCTCAGCGTGG
GAAGTCCCATGTACTTCCGTTCAAGTGCTCAGGAATTTGGAGAGCCAGGATGGTGGAACTTGTTCATAACAAGC
CCCCAACGATGAAACCTGAAGGAGAGAAGTTGTCTGCCTCTACTTTGAAAATAAAAGCAGCCTCAAAACCAACTT
TAGATCCCATCATTACTGTTGAGGGACTTAGAAAAAGCAGCAAGTCGGAATCCTGTGGAATCTGCCATGGAATTAA
AAGAGAAAAGGTCTCGAACTCAGGAAGCAAAAGACATTAGAAGAGCCCAGAAGGAGGCGCTGGCTTTCTTGACA
GGAGCACATCTTCTACCCCTGTAAAATTCTATAAGCCGAGGCCGAGGCCAGATGTGATTCTGAAAAAGGCGAAG
TGATTGACTTTTTCTCTCTGAGCTCCTCTGACCGCACCCCGCTGACAAGCCCATCTCCTTCTCTCTGATT
TCTCTGCCCCCTGGTACACCTGCCTCTCATTCTGCCACACCTAGCTTGCTTTTCAGAAGCAGATCTGATTCCAGATG
TGATGCCCCCACAAGCCTTGTTTCATGATGACGATGAGATGGAAGGCGATGGAGTCATAGACCAGGGATGGAGT
ACGTCCCACCCCTGCTGGGTGAGTACTTCTGGGCCAGTGGTTGGGGTCAGAAAGAAGGTGAGAGGCCCTGAAC
AGATAAAGCAGGAGGTAGAGAGTGAGGAGGAAAAACCCGACAGGATGGATATTGACAGTGAAGACACAGATTCAA
ACACATCTTTGCAACAAGGGCTAGAGAAAAGAGGAAGCCTCAGCTGGAGAAGGACACAAAGCCGAAAGAGCCCA
GGTATACTCCCGTGAGCATCTACGAGGAAAAGCTGCTGCTCAAGAGGCTGGAAGCTTGTCCCGGTGCTGTTGCCA
TGACTCCGGAAGCTCGGAGACTGAAACGCAAACTGATTGTGACACAAGCGAAAAGGGATAGGGGATTACCACTTT
TTGACTTGGATCAAGTTGTTAATGCTGCTCTTTTGTAGTTGACGGGATTTATGGAGCCAAAGAAGGAGGAATTT
CCAGACTTCCAGCTGGACAAGCCACGTACAGAACCACCTGTGAGGACTTCAGAATCCTTGACCGATACCAAGCTT
CCTTGCCGTCCAGGAAGGGATTTTCGACACCAGACCACCAAGTTTTTGTATCGCTTGGTAGGATCAGAAGATATGG
CTGTGGACCAGAGTATTGTGACCCCTTATACCTCTCGGATCTTGAAACCTTATATCAGGCGTGATTATGAAACAA
AGCCACCCAAACTGCAGCTCCTGTGACAGATTGCTTCCACCTGCACAGGAGCGACCCCTCACTGGACGCCGGAGC
CCGACGCACCTCTCGATTACTGTTATGTGCGGCCAAATCACATCCCAACGATCAACTCCATGTGTGTCAGGAGTTTT
TTTGGCCTGGCATTGACCTGTCTGAGTGTCTGCAGTACCCAGACTTCAGTGTGTTGTTCTTTATAAAAAAGTCA
TCATTGCCTTTGGCTTCATGGTTCCCTGATGTGAAATACAATGAAGCTTACATTTTCTGTTTCGTCCACCCTG
AATGGAGAAGAGCAGGGATTGCAACTTTTCATGATCTATCATCTGATTTCAGACCTGCATGGGCAAGGACGTAACCC
TTCACGTCTCAGCAAGCAACCCTGCTATGCTACTGTACCAGAAGTTTGGATTCAAGACTGAAGAATATGTATTAG
ATTCTATGATAAATATTACCCATTGGAGAGTACAGAGTGTAACACGCATTCTTTCTGAGGCTCCGGCGCTGAT
GCGAATACAGCTCACAGAGAAACGCATGTGCTATTGGAGAACAGGTCTTTGTGGAGATCTAAAGGCAGTGATTGA
TTTCACAGGGAGCTCTAATCTCTGTGATTACATGGTCTTCAAACCTCCCAACCAAGTGAGAAAAGCGGCATGCA
GTGAAATGAGCAGTGAGCAGCCCTTTAGCAAAATCGCCCTCCAGTCTTCTGAGAGATGCTTCAGCCAGCATCC
CAGACTCCACAGTTATTTATGAATGATGTCGTGATTCTCCCTCCACCTGACAGTTTGTAAAGAGTGAAAGAGCATC
TAACCTGATGCTCTTGGAGAGAGATAACCTGTCTGTGATAAATTAAAGGATGAGAAAATGTGGTGTAGCTATTAA
AGATTATGACAGTCCCAAAAGGCACTGTCTGGGATGATGAGAGATTATAAGGTGATTTTATAAAAGGAATCCAA
CCCTGTGCCCCGCCATTGATGTGTTGTCATTGAATCCAGGAGGATTTCTAGGGCACTGAAGTTTTGTGTTTCTT
TTGCTGACTTTGGTTACAGTCAGAAAAATAAATACTAGATGTTTGTGTCTACATGTTCTACCTGTTGTACCTATTA

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FIGURE 5689B

GCATCTTCCTGCAGGGACTTGGGCCCATGGCCTGGGAGGTTGGTTTGGGATTGGGGTTGTTGGGCAGCCTGCCAT
TCACCTGGCCTATCCTGGCCCTTCTCATGCCCAAGACAGTTGTTTCACAGGAGTGGAAGTGTGGGTGATGCAAGT
AGAACCCTCTAGATGTACCCTGTGTGGTCTGCAGGACTGGACTGTTTGCTGTGTTTGTGGATGTTGGCGATAGAC
TGTC AATTAGGTTGTTTGTGATCCAACAAGAACATTTCCAAAAGTATCTAGGTGTTCTCAAATAAAAAGCTTTCT
TTGCACAACCC

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FIGURE 5690

MDSSIHLSLISRHDDEATRTSTSEGLEEGEVEGETLLIVESSEDQASVDLSHDQSGDSLNSDEGDVSWMEEQLSY
FCDKCQKWIPASQLREQLSYLKGDNFFRFTCSDCSADGKEQYERLKL TWQQVVMLAMYNLSLEGSGRQGYFRWKE
DICA FIEKHWTFL LGNRKKTSTWWSTVAGCLSVGSPMYFRSGAQEFGE PGWWKLVHNKPPTMKPEGEKLSASTLK
IKAASKPTLDP IITVEGLRK RASRNPFVESAMELKEKRSRTQEAKDIRRAQKEAAGFLDRSTSSTPVKFI SRGRRP
DVILEKGEVIDFSSLSSSDRTPLTSPSPSPSLDFSAPGTPASHSATPSLLSEADLIPDVMP PQALFHDDDEMEGD
GVIDPGMEYVPPPAGSVASGPVVGVRKKVRGPEQIKQEVESEEEKPDRMDIDSED TDSNTSLQTRAREKRKPQLE
KDTKPKEPRYTPVSIYEEKLLLKRLEACP GAVAMTPEARRLKRKLIVRQAKRDRGLPLFDLDQVVNAALLLVDGI
YGAKEGGISRLPAGQATYRTTCQDFRI LDRYQTSLSRKGFRHQTTKFLYRLVGSEDMAVDQSIVSPYTSRILKP
YIRRDYETKPPKLQLLSQIRSHLHRSDPHWTPEPDAPLDYCYVRPNHIPTINSMCQEFFWPGIDLSECLQYPDFS
VVVLYKKV IIAFGFMVPDVKYNEAYISFLFVHPEWRRAGIATFMIYHLIQTCMGKDVT LHVSA SNPAMLLYQKFG
FKTEEYVLDFYDKYYPLESTECKHAFFLR LRR

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FIGURE 5691

ATGATGAACACAAACGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGGACTTTTAGAAAACATGGAGTTGTT
CCTTTGGTCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAAA
GGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAGTGTTACCCAGCATGCTGTTGGCATTGTT
AGCATTAAATGTGCATACTGAGCACATGAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAGGAAAATG
ATCAGAAAAAAAAAAGAAGCCAAAGAGAAAAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTG
GAACTTATTCCGTATGAATTCATGGCATATAA

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FIGURE 5692

MMNTNGKRRGTRYMFSTRFRKHGVVPLVTYMRIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYSVTQHAVGIV
SINVHTEHMKHKSRSRDSFLKCMRKMIRKKKEAKEKEAHFVRTNGKEPELLELIPYEFMA

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FIGURE 5693

TGGGCGCGCCTTCCGGGTGTCACCTCCAGAGGGCGCCGGCTGCGGAGCCTCCCTCAGAGTCGCGAGGCCGGACGC
ATCGCGGCGCCGCCCCACTCGCCCCAGCCGCGCCCATGAAGGCCGTGGTGCAGCGCGTCACCCGGGCCAGCGTCA
CAGTTGGAGGAGAGCAGATTAGTGCCATTGGAAGGGGCATATGTGTGTTGCTGGGTATTTCCCTGGAGGATACGC
AGAAGGAAGTGAACACATGGTCCGAAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGGAAGCACTGGT
CGAAGAGTGTGATGGACAAACAGTACGAGATTCTGTGTGTGTCAGCCAGTTTACCCTCCAGTGTGTCTGAAGGGAA
ACAAGCCTGATTTCCACCTAGCAATGCCCACGGAGCAGGCAGAGGGCTTCTACAACAGCTTCTGGAGCAGCTGC
GTAAACATACAGGCCGGAGCTTATCAAAGATGGCAAGTTTGGGGCCTACATGCAGGTGCACATTCAGAATGATG
GGCCTGTGACCATAGAGCTGGAATCGCCAGCTCCCGGCACTGCTACCTCTGACCCAAAGCAGACGGATTCTCGCT
CTGTCTCCCAGGCTGGAGTGCAGTGGCGGATCTCCGTTTATTGCAAGCTCCACCTCCCGGGTTCATGCCATTCT
TCTGCCTAAGCCTCCCAAGTAGCTGGGACTATAGGCACGTGCCACCATGCCCGGCTAATTTTTTTTGTATTTTTTT
AGTAGAGACGGGGTTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGCCCTGGTGATCCACCCGCCCTCGGCCT
CCCAAAGTGCTGGGATTACAGGTGTGAACCTACCGCGCCAGCCAAAGTTCACTAGGTTTTTTAAATGTCTTTTTT
CTGCTCCGGGATAATGCAGGATTCCACACGGCATTTAGTTGTCAATTTCTGCTTAGTCTTCTCCAATCTGTGACAG
TTCTTCAGCCTTTCTTGTCTTTTGTGACATTGATACTTTTCAAGAGTACTAGTCTACTGTTTTGTAGAATGTTT
CTCACTTTGGGTTTTCTATGATTATATTGAGGTAATACATGTTGACAGGAATAGGAAATAGCACAGAAGTGATCT
TGTGCCCTTCATAGTGCATCCTACCAGGAGGTATGTGGTATTGATTTGTCTTGTACCTGTGATAACAGCCTTAT
TACTTGGTTTCAGGTGAAGTCTACCAGATACCTCCATGTTAGATGAAGTGCTAACCTCTTTCCCTTGTCTGTCT
CTGGCTCATTACAGCAGACAGCTCTCTCTCAGCTTTGCAGGGAAAGAAGCCAGCAGATGGCATTGACTCTGCTT
CTCTATCCCCCTTCTGCCACCGTGGTAGCAGAGCTACCCTTTCTGGGCTGAGTCCAGCCTCTCCCTGGGGCCAG
GACCAGCTACATAATTTGAGAGGCCAGTGTAAGTGAAGTGGGGCCCTTGTTCAAAAAATATTACAAATT
TCAAGGTGGTGACATAGAGCATAAACGAAAGGTGGGGCCCTCTGAAGGTGGGGCCTGTGTGACTGCTCGGCTG
TGGGTCTAGACTGACCTGGGCTTTGGAGCCCTTCCCTTCCACCTCCTCAGCAGCTTCTGGAAGCCTCTGTCTC
TTGTTGGTTCTGTCTGCCTCTCACAGTCATCCATCTTATCCATTGGGTTTTAAATATGCCCAAATGTCTCCAAT
TGAGAAATGCTTCCATTTCTCCCTTCTGCTCTGCCACAGTGTCTTGGGTCTGTAAAGGTTCTCACCGAGGGCC
CCAGTGACCTCACATTGCTTTATTTTCATGCCCATTTTTTCAGAACACTTTTCTTGCCACTGCTGCCCCTTTGCC
CCTGGAATGGCTGGAGCCTTGTTCAGGACGTCATTCTCTGCGGTTTTTGTCTTGCCCTCTGGCTACTCCCT
CTGGTTTTATTTGATCATTATTCCATAGTTTTTTAGTTATTATTCTGCTTTAACTCTATTTGGAGAAAAATTTAG
TCTTTTTTTCATTCTAAATATTTTTCCGGAAATGGTAGAATAGTACATTTTGCCCTTTAGAATCTTCACCTTTCTT
TCAACCAGTACCCTCTTCTGTTTAGGTCAAAGGGTACAAAGATGCAGTTATTTTGGGTGAGTAAGTCTCAAGAT
CTAATGTACACCATAAGGAGTGCAGTATCATATTGTGCACTGGGAGTAGATTTAGGAATCTCAGCACACACAGA
ATAAAGGACGGTAACTGTGTGAGATGCTGGACATGTAATTTACTTGACTGTAGTAATCACTTCACTATGTGTATG
TAGATCAGAGCATCATGCTGTACACCTTATACAATAAATCCCTCTCCCCAAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5694

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDESGKHWSKSVMDKQYEIL
CVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQNDGPVTIELESPAP
GTATSDPKQTD SRSVSQAGVQWRDLRSLQAPPPGFMPEFFCLSLPSSWDYRHVPPCPANFFVFF

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FIGURE 5695

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCTGAATCCGGGTTTCATCCGACACC
AGCTGCCTCCACCATGCTGCCGAAGTTCGACCCGAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACAT
TGCCAAGGCAATGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTAACCATTTCAGAACAGACAGGCCCAGAT
TGAGGTGGTGCCCTTCTGCCTCTGCCATGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCAATCCTT
AGCCAGAGAACTCTCTGGAACCACTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAATGTTGATGGCCG
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTAGAATGCCCAGCTAGTTAAGCACAAAGGAAAAT
ATTTCAATAAAAGGATCATTGACAA

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FIGURE 5696

ATGAAAGTCGAGCTGTGCAGTTTCAGCGGATACAAGATCTACTCCGGACACAGGAGGCGCTACGCCAGGACCGAA
GGGAAGGTTTTCCGGTTTCTTAATTCAAAATGCGAAGGGATCAGAAACCTGAAGTTAGAAAGGCTCAAAGAGAAC
AAGCTATCAGGGCTGCTAAGGAAGCAAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAG
GCACCTACAAAGGCAGCACCTAAGCAAAAGACTGTGAAGGTTGTGAAAGTTTCAGCTCCCCAAGTTGGTGAAAA
CGCTTAA

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FIGURE 5697

MKVELCSFSGYKIYSGHRRRYARTEGKVFRFLNSKCEGIRNLKLERLKENKLSGLLRKQKKAKQASKKTAMAAK
APTKAAPKQKTVKVKVSAPQVGGR

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FIGURE 5698

AAGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGA
GTTTGATAATCTGTATTGATATGAATGGAATCATCCATCCCTGTACTCATCTGAAGACAAACCAGCACCAAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTTCAGGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC
TCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAACTGAATTCATGGACAATCTTGCTAA
ATGCCCTTCGCTATTACATAGCTGATCGTTTTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGA
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAGAGCCAGCCTAACCATGA
CCCAAATACTCATCATTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAAACAAGCCCAAACCATGTGGTCTTTGTAATCAGTTTGGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAAGAGAAAAGAAGGGAAAGCATGATGAACTTGCCGATAGTCTTCCTTGTC
AGAAGGAGAGTTTATCTTCCTTCGGCTTAATGTTCTTCGTGAGTATTTGGAAAGAGAACTCACAATGGCCAGCCT
ACCATTACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTTCATGTGCTTCTTTGTGGGAAATGACTTCCT
CCCTCATTTGCCATCGTTAGAGATTAGGGAAAATGCAATTGACCGTTTGGTTAACATATACAAAAATGTGGTACA
CAAACTGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTGAGGATAGCATTTTTTAAAAGAGAAAGGATGATGAGGACAGTTTTAGAAAGACGACAGAAAGAAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCACCTCTAGTGAATATTAACCTCCTCATGCCTTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC
TTCGATATCTCCTAATACGAGTTTCACATCTGATGGCTCCCCGCTCCTCATTAGGAGGAATTAAGCGAAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTCAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATTCGCTCGGAAAGTTGTGCAGTCGTACGTTGAAGGACTTTG
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCCTGGAAGTGGTATTATCCATTTCAATTATGCACCATTTCG
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTTGAGAAGGGTACGAAACCGTTTAAACCACTAGAACA
ACTTATGGGGGTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCCTGA
TTCTAGTATAATTGACTTCTATCCTGAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGAGGTTGATGTCTTATTTGTGGGAAACATCACCCACTCCATGACTTCATTTT
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAACTATGTCATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCCTGTTCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGCTGAAGATTACATTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGTACTGAAACCTAGTACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAACCTGGCATTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGGAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCAGATTCCAAAACCTATGTCAAATATGAGGCCCCAGGATTCTTGCGGAGGTCC
TCCTCCCCCTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAAACCCAGAATGCAGCCTTCCAGCCAAACAGTACCAGATGCTAGCTGGGCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGATATCCAGAGAAGGAAGGAATACCCCTTGCCACCACCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAGCTTTCCCAAATCCTTTCATCATTCTACAGTTTTATGCTATTTGTGGAAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTTTGTGTATTTCTTTTAACTGTGTATTTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGTATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTT
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAACCTTTGA
GCTGGAACCTCAGCAAACTAGAGTATATATTGTTTCAGTATTTCTTTGGAAACATTTCAATTAATGTACTTGTCTTA
CAGAAATTTCTGAACTTTAGTAAAAAAAATAAAGTTAAACTTTTAAACTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5699

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSRFRASKEGMEAAVEKQRVREEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFVVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAYEMRMQNNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNKF
DVDAADEKFRRKVVSQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKPFKPLEQLMG
VFPAASGNFLPPSWRKLMSPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYDLPTEETR
RNSLGGDVLVVGKHHPLHDFILELYQTGSTPEVEVPPELCHGIQGFSLDEEAILPDQIVCSPVPMRLDLTQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKP SDWEKSSNGRQWKPLGFNRDRRPVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPPVTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDRGVGAEP LLPWNRMLQTQ
NAAFQPNQYQMLAGPGGYPPRRDDRGRQGYPREGRKYPLPPPSGRYNWN

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FIGURE 5700

CCCGCCCACTTCCAAC TACCGCCTCCGGCCTGCCAGGGAGAGAGAGGGAGTGGAGCCCAGGGAGAGGGAGCGCG
AGAGAGGGAGGGAGGAGGGGACGGTGCTTTGGCTGACTTTTTTTTAAAAGAGGGTGGGGGTGGGGGTGATTGCT
GGTCGTTTGTGTGGCTGTTAAATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGG
AAGGGCACGAGCCGTCCTGACTGGAGCAGCTACTATGCAGAGCCCCGAGGGCTACTCCTCCGTGAGCAACATGAACG
CCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTTCGGCGGCCGCCATGGGCAGCGGCTCGGGCAACA
TGAGCGCGGGCTCCATGAACATGTCGTTCGTACGTGGGCGCTGGCATGAGCCCCGTCCCTGGCGGGGATGTCCCCG
GCGCGGGCGCCATGGCGGGCATGGGCGGCTCGGCCGGGGCGGCCGGCGTGGCGGGCATGGGGCCGCACTTGAGTC
CCAGCCTGAGCCCCGTCCGGGGGAGGCGGGCCGGGGCCATGGGCGGCCCTGGCCCCCTACGCCAACATGAACTCCA
TGAGCCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGCGACCCCAAGACCTACAGGCGCAGCTACACGCACG
CAAAGCCGCCCTACTCGTACATCTCGCTCATCACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGA
GCGAGATCTACCA GTGGATCATGGACCTCTTCCCCTTCTACCGGCAGAACAGCAGCGCTGGCAGAACTCCATCC
GCCACTCGCTCTCCTTCAACGACTGTTTCCTGAAGGTGCCCCGCTCGCCCGACAAGCCCGGCAAGGGCTCCTTCT
GGACCCTGCACCTGACTCGGGCAACATGTTTCGAGAACGGCTGCTACCTGCGCCGCCAGAAGCGCTTCAAGTGCG
AGAAGCAGCTGGCGCTGAAGGAGGCCGCGAGGCGCCGCGGCCTCCGAGACTCCGGCGGGCACCAGTTCGCTCACTCGAGCG
CCTCCCCGTGCCAGGAGCACAAGCGAGGGGGCCTGGGAGAGCTGAAGGGGACGCCGGCTGCGGCGCTGAGCCCCC
CAGAGCCGGCGCCCTCTCCCGGGCAGCAGCAGCAGGCGCGGCCACCTGCTGGGCCCCGCCACCACCCGGGCC
TGCCGCTGAGGCCACCTGAAGCCGGAACACCACTACGCCTTCAACCACCGTTCTCCATCAACAACCTCATGT
CCTCGGAGCAGCAGCACCACCACAGCCACCACCACCAACCCACAAAATGGACCTCAAGGCCTACGAACAGG
TGATGCACTACCCCGGCTACGGTTCCTCCATGCCTGGCAGCTTGCCATGGGCCCCGGTCACGAACAAAACGGGCC
TGGACGCCTCGCCCTGGCCGCAGATACCTCCTACTACCAGGGGGTGTACTCCCGGCCATTATGAACTCCTCTT
AAGAAGACGACGGCTTCAGGCCCGGCTAACTCTGGCACCCCGGATCGAGGACAAGTGAGAGAGCAAGTGGGGGTG
GAGACTTTGGGGAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACACCCCAA
GACAGCAGTCTTCTTCAACCGCTGCAGCCGTTCCGTCCCAACAGAGGGCCACACAGATACCCACGTTCCTATAT
AAGGAGGAAAACGGGAAAGAATATAAAGTTAAAAAAAGCCTCCGGTTTCCACTACTGTGTAGACTCCTGCTTCT
TCAAGCACCTGCAGATTCTGATTTTTTTTGTGTTGTTGTTCTCCTCCATTGCTGTTGTTGCAGGGAAGTCTTACT
TAAAAAATAAATAAATTTTGTGAGTGACTCGGTGTAAACCATGTAGTTTTTAACAGAACCAGAGGGTTGTACTA
TTGTTTAAAAACAGGAAAAAATAATGTAAGGCTCTGTTGTAAATGACCAAG

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FIGURE 5701

TCGCGTTCTGGGCCCCGGAGTCCGAGACAGGCGGGGACCCCGGCAGCTCCCGGTGCTATCTCTGAGCGGGTTCCG
AGCCCCACTTCCGGGCGGTCAGAATTAGCCTCAGAGCGCCGAGCAACGACGCGCCGGGGACCTCCCGCCCATGAG
GCCGGAAGGGGCGGGGAGAACGCTGCGGAATGGTCCCTGGGCGCAACGTCATTTCCGCGTACGGGGGAGGGCGGG
CCTGGAGTCTGAGCCGGCGCCGCTCAGTGTGAGGTGGTTTCTGCGGGTGAGGCTGGCGCCCGTACCATGAGCGAG
GCGGACGGGCTGCGACAGCGCCGGCCCTGCGGCCGAGGTCGTCACAGACGATGATGGCCAGGCCCGGAGGCT
AAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGACCTTCTTGATGCTGGCTGTTTTCTCTACCGTTCCC
CTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCCACAGCCTCTCAGCTTCAAAGAACCCCGCTCTTG
CTTGGTGTCTGTCATCCAAATACGAAGCTGCGACAGGCAGAAAGGCTGTTTGAAAATCAACTTGTTGGACCGGAG
TCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGCAGATGGCCGGGTGCTAAAACCTTGAAAATGGTGAA
ATAGAGACCATTGCCCGGTTTGGTTGGGGCCCTTGCAAAACCCGAGATGATGAGCCTGTGTGTGGGAGACCCCTG
GGTATCCGTGCAGGGCCCAATGGGACTCTCTTTGTGGCCGATGCATACAAGGGACTATTTGAAGTAAATCCCTGG
AAACGTGAAGTGAACTGCTGCTGTCCTCCGAGACACCCATTGAGGGGAAGAACATGTCCTTTGTGAATGATCTT
ACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTCTAGCAGCAAATGGCAAAGACGAGACTACCTGCTT
CTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTATGATACTGTGACCAGGGAAGTAAAAGTTTTATTG
GACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCCTGCAGAAGACTTTGTCTGTTGGTGGCAGAAACAACCATG
GCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGGCGGGGCTGATCTGTTTGTGGAGAACATGCCTGGA
TTTCCAGACAACATCCGGCCAGCAGCTCTGGGGGGTACTGGGTGGGCATGTCGACCATCCGCCCTAACCTGGG
TTTTCCATGCTGGATTTCTTATCTGAGAGACCCTGGATTAAAAGGATGATTTTAAAGCTCTTTAGTCAAGAGACG
GTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCCTAGAACTCAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCAT
GATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCACGAACACGATGGGCACCTGTACCTGGGCTCTTTC
AGGTCCCCCTTCTCTGCACTCAGCCTCCAGGCTGTTTAGCCCTCCAGATAGCTGCCCTGCCACGCAGGCC
AGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGACACAGTCGTGGTTCAAGTGTCCACAT
GCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCATTCCCTCGAGGATGCCCCGGGCCCCACCTGGGCTT
GTCTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAA
ACAAAACAAAACCTTTCTAAGTACAGTCATTCTCTAGGATTTGGGAAGCTCCTTGCACTTGGAACAGGGCTCAGGT
GGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGCGGCCCTGTCCTGCGGCCCTCAAAGTTCTTCTTAC
TATATATAACGTGCGGTCATACCTTCTTCGTTGTGGTGGGGATGGAAGAGCAGAGGGAGCATGGCCCAGGGGTG
TTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAAGTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTC
TCCATAGTGTGTATGAAAAGCTTGTGACTCTAGCGGCTCAGAGAGGACTTTGCTGGGTTTCTTCTGTGAATAT
CTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTCGGGACCTACTGCAGGGGTCCGTTTAGTAACGTCT
TGTCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGTGAACAGTGCACGTGTTAATGTATCTTTGCTCAT
GTGTTATAAGCCCCAAGTTGCTGTATATTTTACAAGTATGTCTACACACTGGTCATGATTTTGATAATAATAA
CGATAAATCG

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FIGURE 5702

MSEADGLRQRRPLRPQVVTDDDGQAPEAKDGSSFSGRVFRVTFMLLAVSLTVPLLGAMMLESPIDPQPLSFKEP
PLLLGVLHPNTKLRQAERLFENQLVGPEIAHIGDVMFTGTADGRVVKLENGEIEIARI FGSGPCKTRDDEPVCG
RPLGIRAGPNGTLFVADAYKGLFEVNPWKREVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRD
YLLLVMEGTDDGRLLLEYDTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVYVSGLMKGGADLFVEN
MPGFPDNIRPSSSGGYWGMSTIRPNPGFSMLDFLSERPWI KRMIFKLF SQETVMKFVPRYSLVLELSDSGAFRR
SLHDPDGLVATYISEVHEHDGHLYLGSFRSPFLCRLSLQAV

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FIGURE 5703

GTGGGGTCGTATCCCGCGGGTGGAGGCCGGGGTGGCGCCGGCCGGGGCGGGGGAGCCCCAAAAGACCGGCTGCCGC
CTGCTCCCCGAAAAGGGCACTCGTCTCCGTGGGTGTGGCGGAGCGCGCGGTGCATGGAATGGGCTATGTGAATG

AAAAAAGGTATCCGTTATGAAACTTCCAGAAAAACGAGCTACATTTTTTCAGCAGCCGCAGCACGGTCCTTGGCAA
ACAAGGATGAGAAAAATATCCAACCACGGGAGCCTGCGGGTGGCGAAGGTGGCATACCCCCTGGGGCTGTGTGTG
GGCGTGTTCATCTATGTTGCCTACATCAAGTGGCACCGGGCCACCGCCACCCAGGCCCTTCTTCAGCATCACCAGG
GCAGCCCCGGGGGCCCCGTGGGGTCAGCAGGCCACAGCCCCCTGGGGACAGCTGCAGACGGGCACGAGGTCTTC
TACGGGATCATGTTTGATGCAGGAAGCACTGGCACCCGAGTACACGTCTTCCAGTTCACCCGGCCCCCAGAGAA
ACTCCACGTTAACCACGAAACCTTCAAAGCAGTGAAGCCAGGTCTTCTGCCTATGCTGATGATGTTGAAAAG
AGCGCTCAGGGAATCCGGGAACCTACTGGATGTTGCTAAACAGGACATTCCGTTCGACTTCTGGAAGGCCACCCCT
CTGGTCTCAAGGCCACAGCTGGCTTACGCCTGTTACCTGGAGAAAAGGCCCAGAAAGTTACTGCAGAAGGTGAAA
GAAGTATTTAAAGCATCGCCTTTCCTTGTAAGGGGATGACTGTGTTTCCATCATGAACGGAACAGATGAAGGCGTT
TCGGCGTGGATCACCATCAACTTCCTGACAGGCAGCTTGAAAACCTCCAGGAGGGAGCAGCGTGGGCATGCTGGAC
TTGGGCGGAGGATCCACTCAGATCGCCTTCTGCCACGCGTGGAGGGCACCCCTGCAGGCCTCCCCACCCGGCTAC
CTGACGGCACTGCGGATGTTTAAACAGGACCTACAAGCTCTATTCTACAGCTACCTCGGGCTCGGGCTGATGTCG
GCACGCTGGCGATCCTGGGCGGCGTGGAGGGGCAGCCTGCTAAGGATGGAAAGGAGTTGGTCAGCCCTTGCTTG
TCTCCAGTTTCAAAGGAGAGTGGGAACACGCAGAAGTCACGTACAGGGTTTCAGGGCAGAAAGCAGCGGCAAGC
CTGCACGAGCTGTGTGCTGCCAGAGTGTGAGAGTCTTCAAACAGAGTGCACAGGACGGAGGAAGTGAAGCAT
GTGGAATCTATGCTTTCTCCTACTATTACGACCTTGACGCTGGTGTGGGCTCATAGATGCGGAGAAGGGAGGC
AGCCTGGTGGTGGGGGACTTCGAGATCGCAGCCAAGTACGTGTGTGCGACCTGGAGACACAGCCGCAGAGCAGC
CCCTTCTCATGCAATGGACCTCACCTACGTACGCTGCTACTCCAGGAGTTCGGCTTTCCCAGGAGCAAAGTGCTG
AAGCTCACTCGAAAAATTGACAATGTTGAGACCAGCTGGGCTCTGGGGGCCATTTTTTCATTACATCGACTCCCTG
AACAGACAGAAGAGTCCAGCCTCATAGTGGCCGAGCCATCCCTGTCCCCGTGACGAGTGTCTGTGTGTCTGCATA
AACCCTCCTGTCTGGACGTGACTTCATCTGAGGAGCCACAGCACAGGCCGTGCTGGCACTTTCTGCACACTGG
CTCTGGGACTTGCAAGAGCCTGGTGTGCTGCCCTGGCATCAGCCTCTTCCAGTCACATCTGGCCAGAGGGCTGTCT
GGACCTGGGCCCTGTCAATGCCACCTGTCTGCCTGGGCTCCAAGTGGGCAGGACCAGGACAGAACCACAGGCAC
ACACTGAGGGGGCAGTGTGGCTCCCTGCCTGTCCCATCCCCATGCCCCGTCCGCGGGGCTGTGGCTGCTGCTGTG
CATGTCCCTGCGATGGGAGTCTTGTCTCCAGCCTGTGAGTTTCTTCCCCAGGGCAGAGCTCCCTTCTCTGCAAG
AGTCTGGGAGGCGGTGCAGGCTGTCTGGCTGCTCTGGGGAAGCCGAGGGACAGCCATAACACCCCCGGGACAGT
AGGTCTGGGCGGCACCACTGGGAACCTCTGGAATGAGTGTGTTTGTCTTCTTGGGTATGAATGTGTGAGTTCA
CCCAGAGGCCTGCTCTCCTCACACATTGTGTGGTTTGGGGTTAATGATGGAGGGAGACACCTCTTCATAGACGGC
AGGTGCCCACCTTTCAGGGAGTCTCCAGCATGGGCGGATGCCGGGCATGAGCTGCTGTAAACTATTTGTGGCTG
TGCTGCTTGAGTGACGTCTCTGTCTGTGGGTGCCAAGTGCTTGTGTAGAACTGTGTTCTGAGCCCCCTTTTCT
GGACACCAACTGTGTCTGTGAATGTATCGCTACTGTGAGCTGTTCCCGCCTAGCCAGGGCCATGTCTTAGGTGC
AGCTGTGCCACGGGTCAGCTGAGCCACAGTCCAGAACCAAGCTCTCGGTGTCTCGGGCCACCATCCGCCACCT
CGGGCTGACCCACCTCCTCCATGGACAGTGTGAGCCCCGGGCGTGCATCCTGCTCAGTGTGGCGTCAGTGTGCG
GGGCTGAGCCCCCTTGAAGTGTCTCAGTGAATGTACAGTGCCCGGCACGAGCTGAACCTCATGTGTCCACTCCCA
ATAAAAGGTTGACAGGGGCTTCTCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5704

MKKGIRYETSRKTSYIFQQPQHGPWQTRMRKISNHGSLRVAKVAYPLGLCVGVFIYVAYIKWHRATATQAFFSIT
RAAPGARWGQQAHSPLGTAADGHEVFYGYMFDAGSTGTRVHVVFQFTRPPRETPTLTHETFKAVKPGLSAYADDVE
KSAQGIRELLDVAKQDIPFDLFWKATPLVLKATAGLRLLPGEKAQKLLQKVKEVFKASPFLVGDDCVSIMNGTDEG
VSAWITINFLTGSLKTPGGSSVGMLDLGGGSTQIAFLPRVEGTLQASPPGYLTALRMFNRTYKLYSYSYLGGLM
SARLAILGGVEGQPAKDGGKELVSPCLSPSFKGEWEHAEVTYRVSGQKAAASLHELCAARVSEVLQNRVHRTEEVK
HVDFYAFSYYYDLAAGVGLIDAEKGGSLVVGDFEIAAKYVCRTLETQPQSSPFSCMDLTYVSLLLQEFGFPRSKV
LKLTRKIDNVETSWALGAIFHYIDSLNRQKSPAS

FIGURE 5705A

GAGCAGCTGCACCATCCCGCGCTTCGCGTGTGCCGCCGCTTTCTCTCTCATCTCTTTTCCCTCCGCTCCGCCGG
 CGCGATGGCGAAGCCGCTGACGGACAGCGAGAAGCGGAAGCAGATCAGCGTGCGCCGCTGGCGGGGCTAGGCGA
 CGTGGCCGAGGTGCGGAAGAGCTTCAACCGGCACTTGCACCTTACGCTGGTCAAGGACCGCAATGTGGCCACGCC
 CCGCGACTACTTCTTCGCGCTGGCGCACACGGTGC CGGACCACCTCGTGGGCCGCTGGATCCGCACGCAGCAGCA
 CTACTACGAGCGCGACCCCCAAGCGCATTTATTATCTTTCCCTGGAATTCTACATGGGTGCGACGCTGCAGAACAC
 GATGGTGAACCTGGGCCTTCAGAATGCCTGCGATGAAGCCATCTATCAGTTGGGGTTAGACTTGGAGGAACTCGA
 GGAGATAGAAGAAGATGCTGGCCTTGGGAATGGAGGCCCTGGGGAGGCTGGCAGCGTGTTTCTTTGACTCAATGGC
 TACCTTGGGCCTGGCAGCATACGGCTATGGAATCCGCTATGAATTTGGGATTTTTAACCAGAAGATTGTCAATGG
 CTGGCAGGTAGAGGAGGCCGATGACTGGCTGCGCTACGGCAACCCCTGGGAGAAAGCGCGGCCTGAGTATATGCT
 TCCCGTGCACCTTCTACGGACGCGTGGAGCACACCCCCGACGGCGTGAAGTGGCTGGACACACAGGTGGTGTCTGGC
 CATGCCCTACGACACCCCAAGTGCCCGGCTACAAGAACAACACCGTCAACACCATGCGGCTGTGGTCCGCCAAGGC
 TCCCAACGACTTCAAGCTGCAGGACTTCAACGTGGGAGACTACATCGAGGCGGTCTTGGACCGGAACTTGGCTGA
 GAACATCTCCAGGGTCTGTATCCAAATGATAACTTCTTTGAGGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTT
 CGTGGTGGCCGCCACGCTCCAGGACATCATCCGCCGCTTCAAGTCGTCCAAGTTCGGCTGCCGGGACCCTGTGAG
 AACCTGTTTTCGAGACGTTCCCGAGACAAGGTGGCCATCCAGCTGAACGACACCCACCCCGCCCTCTCCATCCCTGA
 GCTCATGCGGATCCTGGTGGACGTGGAGAAGGTGGACTGGGACAAGGCCTGGGAAATCACGAAGAAGACCTGTGC
 ATACACCAACCACACTGTGCTGCCTGAGGCCTTGGAGCGCTGGCCCGTGTCCATGTTTTGAGAAGCTGCTGCCCGC
 GCACCTGGAGATAATCTATGCCATCAACCAGCGGCACCTGGACCAGTGGCCGCGCTGTTTCCCGGCGATGTGGA
 CCGCTGCGCAGGATGTCTGTGATCGAGGAGGGGGACTGCAAGCGGATCAACATGGCCACCTGTGTGTGATTGG
 GTCCCATGCTGTCAATGGTGTGGCGAGGATCCACTCGGAGATCGTGAACAGTCGGTCTTTAAGGATTTTTATGA
 ACTGGAGCCAGAGAAGTTCCAGAATAAGACCAATGGCATCACCCCCGCGGTGGCTGCTGCTGTGCAACCCGGG
 GCTGGCCGATACCATCGTGGAGAAAATTGGGGAGGAGTTCCTGACTGACCTGAGCCAGCTGAAGAAGCTGCTGCC
 GCTGGTCACTGACGAGGTGTTTCATCAGGGACGTGGCCAAGGTCAAACAGGAGAACAAAGCTCAAGTTCTCGGCCTT
 CCTGGAGAAGGAGTACAAGGTGAAGATCAACCCCTCCTCCATGTTTCGATGTGCATGTGAAGAGGATCCACGAGTA
 CAAGCGGCAGCTGCTCAACTGCCTGCACGTGCTCACCTGTACAATCGAATCAAGAGAGACCCGGCCAAGGCTTT
 TGTGCCCAGGACTGTTATGATTGGGGGCAAGGCAGCGCCCGGTTACCACATGGCCAAGCTGATCATCAAGTTGGT
 CACCTCCATCGGCGACGTGCTCAATCATGACCCAGTTGTGGGTGACAGGTTGAAAGTGATCTTCTTGGAGAACTA
 CCGTGTGTCTTGGCTGAGAAAGTGATCCCGGCCGCTGATCTGTGCGCAGCAGATCTCCACTGCAGGCACCGAGGC
 CTAGGCACAGGCAACATGAAGTTCATGCTCAACGGGGCCCTCACCATCGGCACCATGGACGGCGCCAACGTGGA
 GATGGCCGAGGAGGCCGGGGCCGAGAACCTCTTCATCTTCGGCCTGCGGGTGGAGGATGTCGAGGCCTTGGACCG
 GAAAGGTTACAATGCCAGGGAGTACTACGACCACCTGCCCGAGCTGAAGCAGGCCGTGGACCAGATCAGCAGTGG
 CTTTTTTCTCCCAAGGAGCCAGACTGCTTCAAGGACATCGTGAACATGCTGATGCACCATGACAGGTTCAAGGT
 GTTTCAGACTATGAAGCCTACATGCAGTGCCAGGCACAGGTGGACCAGCTGTACCGGAACCCCAAGGAGTGGAC
 CAAGAAGGTTCATCAGGAACATCGCCTGCTCGGGCAAGTTCTCCAGTGACCGGACCATCACGGAGTATGCACGGGA
 GATCTGGGGTGTGGAGCCCTCCGACCTGCAGCTTCAGCACCTGCCCCACCCAGAGTGGGAGTCAGGTGGAGCCAC
 CTGCTGGGCTCCCCAGAACTTTGCACACATCTTGCTATGTATTAGCCGATGTCTTTAGTGTTGAGCCTCTGGAT
 TCTGGGGTCTGGGCCAGTGGCCATAGTGAAGCCTGGGAATGAGTGTTACTGCAGCATCTGGGCTGCCAGCCACAG
 GGAAGGGCCAAGCCCCATGTAGCCCCAGTCATCCTGCCCAGCCCTGCCTCCTGGCCATGCCGGGAGGGGTGCGAT
 CCTTAGGCATCGCCTTCACAGCCCCCTGCCCCCTGCCCTCTGTCTGGCTCTGCACCTGGTATATGGGTCTATGG
 ACCCAGATGGGGCTTTCCCTTTGTAGCCATCCAATGGGCATTGTGTGGTGCTTGGAAACCCGGGATGACTGAGGG
 GGACACTGGAGTGGGTGCTTGTGTCTGCTGTCTCAGAGGCCCTTGGTCAGGATGAAGTTGGCTGACACAGCTTAGC
 TTGGTTTTGCTTATTCAAAGAGAGAAAATAACTACACATGGAAATGAAACTAGCTGAAGCCTTTTCTGTTTTAGC
 AACTGAAATTTGACTTGGTCACTTTTGTGCTTGAGGAGGCCATTCTCTGCTGGCAGGGGGCAGGTCTGTGCC
 CTCCCGCTGACTCCTGCTGTGTCTGAGGTGCATTTCTGTGTGACACACAAGGGCCAGGCTCCATTCTCCCTCC
 CTTTCCACAGTGCCACAGCCTCGTCTGGAAAAAGGACCAGGGGTCCCGGAGGAACCCATTGTGTCTGTGCTTGG
 ACAGCAGGCCTGGCACTGGGAGGTGGGGGTGAGCCCTCACAGCCTTGCCCTCCCCAAGGCTGGCAACCTGCCT
 CCCATTGCCCAAGAGAGAGGGGCAGGGAACAGGCTACTGTCTTCCCTGTGGAATTGCCGAGAAATCTAGACCTT
 GCATGCTGGATCTGGGCTGCGGGGAGGCTCTTTTTCTCCCTGGCCTCCAGTGCCACCAGGAGGATCTGCGCAGC

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FIGURE 5705B

GTGCACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGC
ATCTTCCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCCTAGTTGGCCACTGGGGGCCACCACCCTGACCAC
CACTGTGCCCCCTCATTGTTACTGCCTTGTGAGATAAAAACTGATTAAACCTTTGTGGCTGTGGTTGGC

6176/6881
FIGURE 5706

AGGCTACGGTTCGCGCCAGCGGCCGGCGCTATCGGGGCTGAGCCGCGTGCGGGCGGTTTTCTTTGACTTGGACAAC
ACTCTCATCGACACGGCCGGGGCGAGCAGGAGAGGCATGTTGGAGGTGATAAACTCTTACAATCAAAATACCAT
TATAAAGAAGAGGCTGAAATCATCTGTGATAAAGTTCAAGTTAACTCAGCAAGGAATGTTTTCATCCTTACAAT
ACATGCATTACTGATTTAAGGACTTCACATTGGGAAGAAGCAATCCAGGAAACAAAAGGTGGTGCAGCCAATAGA
AAATTGGCTGAAGAATGTTATTTCTTTGGAAATCTACACGTTTACAGCATATGACACTAGCAGAAGACGTCAAA
GCCATGCTTACTGAACTTCGAAAGGAGGTCCGCCTACTTCTATTAAACGAATGGGGACAGACAGACCCAGAGGGAG
AAGATTGAGGCTTGTCCTGTCAGTCCTATTTTGACGCTGTTGTTGTAGGTGGAGAGCAGAGAGAGGAGAAACCA
GCACCGTCCATATTTTATTACTGCTGCAATCTTCTCGGAGTACAACCTGGGGACTGTGTGATGGTTCGGTGACACA
TTAGAAACCGACATCCAAGGAGGCCTCAATGCAGGATTGAAAGCAACAGTCTGGATCAATAAAAATGGAATAGTG
CCACTGAAGTCCCTCCCCAGTTCGCATTACATGTTTTCTTCTGTGCTAGAGTTACCTGCTCTCTTACAAAGTATA
GACTGCAAGTCAGTATGTCCACTTAAAGCACATAAAAGGGCATGATTATGAATGTTAGAATCAATTTGCTGAGT
ATGAAATAAGAAAAGTTAGGGCACTCCACTTATGATAATCCAGCTCTAAGAATAATTTTACTTATGATTTAATGG
CCAATATTTTGAAGTCTTCCCAACCCCTATTGCTTCTAAGTTGTAACAACCAACCATTGAGTGGTACTTATATCT
GAAAATTCAGATTGCATGAATTCAGGTCAAGTAGTATAGCCAGAAAATTTAAGGAAATATATTATTTGTTAGTCT
GTATCTGGAGCTTTTTAAATATGTTATTAATCTTTTAGTATCTTGGCTGCATAATGCCAAGCAGGATTGCTTT
ACACATGGATGCACAAATGTAAGGTTTATCTTCTGGCTTAAAAATAGATATTTTTAAAAAATAGATTTTCTAAAA
CACAGATTTATGAAAGCAAGTGAATCTGGTTAATATGAAATAAGTACTAAGTCACATGCAATCAAGGTATTATA
TAGTGAAATTATTTTGCATATTTTGAACATAAACCATAGTTTTTGCCTACTTTGGATGTATACTTTCTTTTAT
GAACCTGATTTTTCTGTATGACATTTTTTTTTTTTTTTCAGAGGGCAGGGAGCAATTTTTCTATGGCATGTGACAGA
TTCTCCAGTTAGAAAAAGCTGTTAAATCAACACATGGTGCTCCTTTACCGTGACATTTTCTCACCTGTGCACA
GTGAGCCGGTAGCTTCCTTTTAGTCTTCACCTCTCAAGGAAATGTTTTTACTGTCTTTTCCCAGACACACAGTGG
GGTTGAGGGAGCTAGGCTGTTTTGCTAGAGATAATTGCAAGGCACGTGGCACTAAAAGTCATTTTTCTTCTGTGG
ATCCATAAGAGGAACATTTCTCAGTGTAGCCTAACAATGCAGCCCCCAATCTGTTCTTTTTTTTTTTTGAATG
GGATCTCTGTGCGCCAGGTTGGAGTGCCATGGCACCATCTCGGCTCACTGCAACCTCTGCCTCCTGAGCTCAAGT
GATCCTCCCACCTCAGCCTCCCAAGGGTGTGTGTGACTACAAGTACACACTACCACGCCAGCTAATGTGTGTTT
TTGTAGAGATGGGATTTTGCCATGTTGCCAGGCTGGTCTCGAATTCCTGGATTCAAGTGATCCTCCACCTCAG
CCTCCTAAAGTCTTAGGATTATAGGCATGAGCCACTGTGCCTGGCCCCCTCATCTGATAGAAAATTAGATTTTGC
TATGAGCCATTTCTGAGGGCCAATTTAATACTCGTGTGACTCTTCTTAGAGTTACCATCTGCCTTAAATTTCT
CTGTTTTTACATTTCTTGAAATATATCATTGTTTTGCAAATTTCTATATCTAATTCAGGGTTTACCAGGAGCTT
AATAATTAATGGCTACATAGCAAGGCATCGTCTTGGAACCGGAGAATTTTCTCTAGACTATTAGGCTAGACAGTC
TCATGATTATACTAACCAACCTGGAGTAAAGTGGTTGAAAAAAGAAAGTATAAAGGGGCTTATTAAAGTGGT
TAATAAATATGA

6177/6881
FIGURE 5707

MGLSRVRAVFFDLNTLIDTAGASRRGMLEVIKLLQSKYHYKEEAEIICDKVQVKLSKECFHPYNTCITDLRTSH
WEEAIQETKGGGAANRKLAEECYFLWKSTRLQHMTLAEDVKAMLTCLRKEVRLLLLTNGDRQTQREKIEACACQSY
FDAVVVGGEQREEKPAPSIFYCCNLLGVQPGDCVMVGDITLETDIQGGLNAGLKATVWINKNGIVPLKSSPVPHY
MVSSVLELPALLQSIDCKVSMST

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FIGURE 5708

CTTCCTGTTGCCTTAGGGGAACGTGGCTTTCCCTGCAGAGCCGGTGTCTCCGCCTGCGTCCCTGCTGCAGCAACC
GGAGCTGGAGTCGGATCCCGAACGCACCCTCGCC**ATCG**ACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGA
GGCAGGCGGCCCCACCAACAGCACTACGCGGCCGCTTCCACGCCCGAGGGCATCGCGCTGGCCTACGGCAGCCT
CCTGCTCATGGCGCTGCTGCCCATCTTCTTCGGCGCCCTGCGCTCCGTACGCTGCGCCCCGGGCAAGAATGCTTC
AGACATGCCTGAAACAATCACCAGCCGGGATGCCGCCCGCTTCCCCATCATCGCCAGCTGCACACTCTTGGGGCT
CTACCTCTTTTTCAAAATATTCTCCCAGGAGTACATCAACCTCCTGCTGTCCATGTATTTCTTCGTGCTGGGAAT
CCTGGCCCTGTCCCACACCATCAGCCCCCTTCATGAATAAGTTTTTTCCAGCCAGCTTTCCAAATCGACAGTACCA
GCTGCTCTTCACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTTGACACCAAGGACCTGGT
GTGCCTGGGCCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCCAACAACCTTTTTGG
CCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTCAGCACTGGCTGCATCCTGCTGGGCGG
ACTCTTCATCTACGATGTCTTCTGGGTATTTGGCACCAATGTGATGGTGACAGTGGCCAAGTCCTTCGAGGCACC
AATAAAATTGGTGTTTTCCCCAGGATCTGCTGGAGAAAGGCCTCGAAGCAAACAACCTTGCCATGCTGGGACTTGG
AGATGTCGTCATTCCAGGGATCTTCATTGCCTTGCTGCTGCGCTTTGACATCAGCTTGAAGAAGAATACCCACAC
CTACTTCTACACCAGCTTTGCAGCCTACATCTTCGGCCTGGGCTTACCATCTTCATCATGCACATCTTCAAGCA
TGCTCAGCCTGCCCTCCTATACCTGGTCCCCGCTGCATCGGTTTTCTGTCTGCTGGTGGCGCTGGCCAAGGGAGA
AGTGACAGAGATGTTTCAGCTACGAGTCCTCGGCGGAAATCCTGCCTCATACCCCGAGGCTCACCCACTTCCCCAC
AGTCTCGGGCTCCCCAGCCAGCCTGGCCGACTCCATGCAGCAGAAGCTAGCTGGCCCTCGCCGCCGGCGCCCGCA
GAATCCCAGCGCCATTTATGAGGAGTCAAATCCTAAGGATCCAGCGGCAGTGACAGAATCCAAAGAGGGAACAGA
GGCATCAGCATCGAAGGGGCTGGAGAAGAAAGAGAAATGATGCAGCTGGTGCCCGAGCCTCTCAGGGCCAGACCA
GACAGATGGGGGCTGGGCCCACACAGGCGTGCACCGGTAGAGGGCACAGGAGGCCAAGGGCAGCTCCAGGACAGG
GCAGGGGGCAGCAGGATACCTCCAGCCAGGCCTCTGTGGCCTCTGTTTCCTTCTCCCTTTCTTGGCCCTCCTCTG
CTCCTCCCCACACCCTGCAGGCAAAAGAAACCCCCAGCTTCCCCCTCCCCGGGAGCCAGGTGGGAAAAGTGGGT
GTGATTTTTAGATTTTGTATTGTGGACTGATTTTGCCTCACATTAAAACTCATCCCATGGCCAGGGCGGGCCAC
TGTGCTCCTGGAA

6179/6881
FIGURE 5709

MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLLMALLPIFFGALRSVRCARGKNASDMPETITSRDA
ARFP IIASCTLLGLYLFFKIFSQEYINLLLSMYFFVLGILALSHTISPFMNKFFPASFPNRQYQLLFTQGSGENK
EEI INYEFDTKDLVCLGLSSIVGVWYLLRKHVIANNLFGLAFSLNGVELLHLNNVSTGCILLGGLFIYDVFWVFG
TNVMVTVAKSFEAPIKLVFPQDLLEKGLEANNFAMLGLGDVVIPGIFIALLLRFDISLKKNTHTYFYTSFAAYIF
GLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVTEMFSYEESNPKDPAAVTESEKTEASASKGLEKK
EK

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FIGURE 5710

GTTCCATTTTCCGTATCTGCTTCGGGCTTCCACCTCATTTTTTTCGCTTTGCCCATTCTGTTTCAGCCAGTCGCC
AAGAATCATGAAAGTCGCCAGTGGCAGCACCGCCACCGCCGCGGGCCCCAGCTGCGCGCTGAAGGCCGGCAA
GACAGCGAGCGGTGCGGGCGAGGTGGTGCCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGGGGG
CGCCGGGGCGCGCCTGCCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGCTGCTCTACGACATGAACGGCTGTTA
CTCAGCCTCAAGGAGCTGGTGGCCACCCTGCCCCAGAACCGCAAGGTGAGCAAGGTGGAGATTCTCCAGCACGT
CATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAGTTGGAACCCCCGGGGGCCGAGGGCT
GCCGGTCCGGGCTCCGCTCAGCACCTCAACGGCGAGATCAGCGCCCTGACGGCCGAGGTGAGATCCAGATCCGA
CCACTAGATCATCCTTATACCGACGGGAAACGGAGGCCAGAGAGGGCGTGGGCGCTTGCACTTCCGTCCCA
TCCTTGCGGGTACCTGGCTATGCGGGGTGCCTAAGGAGCCTGGAAAAAGCGCTCCCCCGTCGTGCTTCTGGGG
AAGGGGGCGTTCGCTGCGCTCGGAGCGGCGTCCCTTCCAACCCGCCGTCTCATTTCTTCTCGTTTTTCAGGGCG
GCATGCGTTCTGCGGACGATCGCATCTTGTGTGCTGAAGCGCCTCCCCCAGGGACCGGCGGACCCAGCCATC
CAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCCAACGCGCCTCGCCGGATCTGAGGGAGAACAAGACC
GATCGGCGGCCACTGCGCCCTTAAGTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGGAGGGGCGCTC
CTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTCTATTTTTTGAAG
CAGACATTTTAAAAAATGGTCACGTTTGGTGTCTCTCAGATTTCTGAGGAAATTGCTTTGTATTGTATTACAA
TGATCACCGACTGAAAATATTGTTTTACAATAGTTCTGTGGGGCTGTTTTTTGTTATTAAACAAATAATTAGA
TGGTG

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FIGURE 5711

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMNGCYSR
LKELVPTLPQNRKVSKVEILQHVIDYIRDLQLELNSESEVGTPGGRGLPVRAPLSTLNGEISALTAEACVPADD
RILCR

6182/6881
FIGURE 5712

GAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAAGTTCAGCACCACCCTA
GTCCCTTCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTT
TATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGT
TCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCA
GGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGCCTGGCTCCTGAGGGGCATCTGCCCCTCCCCCA
ACCCCCACCCACACTTGTTCCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTG
TGTTTACTCAGTG

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FIGURE 5713

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTGGCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTCCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCGAGTCCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTCCGGTACCGGCGG
GCATTCAGTGACCTGACATCCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAAACTGGGGTTCGATTGTGGCCTTTTTCTCCTTCGGCGGGGCACTGTGCGTGGAA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGGCTGGGATACTTTTGTGGAAGTCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAATGACCAGACACTGACCATCCACTCTACCCTCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAGTTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCTTTTCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTGAAGTAGGGATTTCAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCCTCACTCCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTTCAGCACCACCCTAGTCCC
TTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAGG
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCTCCCTCTCTCTTCTGCTCCACCCTTGGCCTGTCTCATCCCCAGGGGTCCCAGCCACCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCCTTGTGAAGATGATATACTATTTTTGTAAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGCAGTGCGCGTGCACGTGGAGAGCTGGTGCCCGGAGATTGGACGGCCTGATGCTCC
CTCCCTGCCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5714

MSQSNRELVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAAESRKQERFNRWFLTGMTVAGVVL
LGSLEFSRK

6185/6881
FIGURE 5715

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGGAGTTTGGAAACGGCTGAAGTTCACCTTCCAGCCCCTAGCGC
CGTTCGCGCCGCTAGGCCTGGCTTCTGAGGCGGTTCGGGTGCTCGGTCGCCGCTAGGCGGGGAGGGTGCGAGC
AGGGGCTTCGGGCCACGCTTCTCTTGGCGACAGGATTTTGCTGAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG
TTGCGGGAGGCTGTGCGCTAATAACGGTCTTGATACATATTTGCCAGACTTCAAGATTTTCAGAAAAGGGGTGAA
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACAATGTCACAAAGTTAAAAAGCTCTT
ATTCTATGATGCCCCCTCGGATTTTCATCAATTTTTTCATCCTTGGATGATGAAGGAGATACTCAAAACATAGATT
CATGGTTTGAGGAGAAGGCCAATTTGGAGAATAAGTTACTGGGGAAGAATGGAAGTGGAGGGCTTTTTTCAGGGCA
AAACTCCTTTGAGAAAGGCTAATCTTCAGCAAGCTATTGTACACCTTTGAAACCAGTTGACAACACTTACTACA
AAGAGGCAGAAAAAGAAAATCTTGTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCAG
CCATATCAAGAAAACTCCAGCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTTGGAACAGA
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCCTGTAATCATCGATGAAATTCTACCTCTA
AGAAAATGAAAGTTTCTAACAACAAAAAGAGCCAGAGGAAGAAGGCAGTGTCTCATCAAGATACTGCTGAAAAGA
ATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCCTTGTATGCCACCTGCAAAGCAGAAGTTTCTAA
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAATGCAGCAAGAGGTGGTGGAGATGCGGAAAAAGAATG
AAGAATTCAAGAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTCACCAAATCAG
TTGACTTCCACTTCCGCACAGATGAGCGAATCAAACAACATCCTAAGAACCAGGAGGAATATAAGGAAGTGAAC
TTACATCTGAACTACGAAAGCATCCTTCATCTCCTGCCCGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA
ACCTGTCCCAAGGAAAGAAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGCACAGCAAGTTGAAG
ACTTCCATAAACGAACCCCTAACAGATATCATTGAGGAGCAAGAAGGATGATATTAACCTGTTACCCTCCAAAT
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCCTGTACTGCAAACCAACACCGTGCACGGGCTGTGACCT
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGCAACAATACAAATTCAAAGCACGTGAACTTG
ATCCCAGAATACTTGAAGGTGGGCCCCTCTTGCCCAAGAAACCACCTGTGAAACCACCCACCGAGCCTATTGGCT
TTGATTTGGAATTTGAGAAAAGAAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTC
ATTCCAGACCTTGCCCTACTAAGATTTTGGAAGATGTTGTGGGTGTTCTCTGAAAAGAAGGTACTTCCAATCACCG
TCCCCAAGTCACCAGCCTTTGCATTGAAGAACAGAATTCGAATGCCACCAAGAAGATGAGGAAGAGGACGAAC
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCCTTTTAAGCCCCAAATCCCAGAGGCAAGAACTG
TGGAATATGCCCTTTCTCGTTTGATTCTCGAGACAAAGAAGCTCAGTTACAGAAGGAGAAGAAAATAAAAGAAC
TGCAGAAAGGGGAGGTGCCCAAGTTCAAGGCACCTTCCCTTGCCCTCATTTTGACACCATTAACTGCCAGAGAAGA
AGGTAAAGAATGTGACCCAGATTGAACCTTTCTGCTTGGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT
GGAAGCACAGCTGGAAGAAGAACTGAGACAGCAGAAAGAAGCAGCTTGTTTTCAAGGCTCGTCCAAACACCGTCA
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGTTTCTCTAGTTTCAGG
AACCTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG
CCCAGAAAGCCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAAGAGGAGCTGGCCAGGCTAC
GGAGAGAACTGGTGCATAAGGCAAAATCCAATACGCAAGTACCAGGGTCTGGAGATAAAGTCAAGTGACCAGCCTC
TGACTGTGCCTGTATCTCCCAAATTTCTCCACTCGATTCCACTGCTAAACTCAGCTGTGAGCTGCGGATACCGCCC
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTGATTGGGCATGGAGAGAACCCATTTT
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATACTTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCCTTT
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAATTTAGTCTCTGTGTGACACAGTGTAATCT
CTATTGCTATTGCCCCCTTACGACTCTCACCTCTCCCACTTTTTTTAAAAATTTTAAACCAGAAAATAAAGATAG
TTAAATCCTAAGATAGAGATTAAGTCATGGTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT
GCATACCGTGAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACCTCACCAACTGCACCAGTGAGGAA
GAAGACTGCGTGGATTTCATGGGGAGCCTCACAGCAGCCACGCAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC
GTTCTTTCTTACTGGTGTGATAACAACAGGGAACCGTGCAGTGTGCATTTTAAGACCTGGCCTGGAATAAATA
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5716

MSQVKSSYSYDAPSDFINFSSLDDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTPLK
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQPPORRSLRLSAQKDLEQKEKHHVKMKAKRCATPVI
IDEILPSKKMKVSNNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEV
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRTDERIKQHPKNQEYKEVNFTSELRKHPSSPARVTKG
CTIVKPFNLSQGKKRTFDETSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTK
HRARAVTCKSTAELEAELEKLQYKFKARELDPRILEGGPILPKKPPVKPPTTEPIGFDLEIEKRIQERESKKKT
EDEHFEFHSRPCPTKILEDVVGVPKVKVLPITVPKSPAFALKNRIRMPKEDDEEEDPVIKAQPVPHYGVFPKP
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDTINLPEKKVKNVTQIEPFCLETDRR
GALKAQTWKHQLEEEELRQKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE
KRMAEVEAQKAQQLEEARLQEEEQKKEELARLRRELVHKANPIRKYQGLEIKSSDQPLTVPVSPKFSTRFHC

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FIGURE 5717

GGCAGGCTATTCCGGACGCCAGCCCTGGAAGCTGAGCCTGACCCAGCAGGTCCCAGCAGCCTGGCAGCCCGGCCA
GCATGCAGCAGCAGCCTCTGCCCCGGGCCTGGCGCCCCACAACCTGAGCCAACCAAGCCTCCCTACAGCTACATCG
CCCTTATTGCTATGGCCATCCAGAGCTCACCAGGGCAGCGGGCCACCCTCAGTGGCATCTACCGCTACATCATGG
GCCGATTTCGCTTCTACCGCCACAACCGGCCCGGCTGGCAGAACAGCATCCGCCACAACCTGTCACTCAACGAGT
GCTTTGTCAAGGTGCCCCGCGATGACCGCAAGCCAGGCAAGGGCAGCTACTGGACGCTGGACCCCTGACTGCCACG
ACATGTTTGAGCACGGCAGCTTCCTACGCCGCCGCCGCCGCTTCACCCGGCAGACAGGTGCTGAGGGCACC CGG
GCCCCGCCAAGGCACGCCGTGGACCCCTCAGGGCGACCAGCCAGGAGTCCCCAACGCCACGACCGGCA
GGCAGTGCTCATTCCCACCAGAGCTGCCAGATCCCAAGGGCCTAAGCTTTGGGGGTCTGGTGGGGGCCATGCCAG
CCAGTATGTGCCAGCAACCACTGATGGCAGGCCTCGGCCACCCATGGAGCCCAAAGAGATTCCACGCCCAAGC
CTGCATGCCCAGGGGAGCTCCCCGTGGCCACCTCATCTTCCTCATGCCCAGCGTTTGGCTTTCTGCCGGCTTCT
CAGAGGCTGAGAGTTTTAATAAGGCCCTACGCCCGTCTTGTCCCCGGAATCAGGCATCGGGAGCAGCTACCAGT
GTCGGCTGCAGGCACTGAATTTTGCATGGGGGCTGACCCAGGCCTTGAGCACCTCTTGGCCTCAGCAGCCCCCT
CCCCTGCACCAACCAACCCCTCCAGGCTCACTCCGGGCCCCACTGCCCCTGCCAACTGACCACAAGGAACCCCTGGG
TTGCAGGTGGCTTCCCTGTCCAGGGAGGCTCCGGCTACCCATTGGGGCTGACCCCTGCCTATACCGGACGCCAG
GAATGTTCTTCTTTGAGTAAAGGCAGCCTCACCTCGGGCAGTCCCTGCAGGTCCCTCACCCCTCCGGGCTGAGCCT
GGCTCTAGGACCTGAAGAACTCTCGAAGGACCCAGCCCTGGTGAGCCAAGGACAACCACACAGAAAGCCAGGATT
GAAGCGGTGCTCAGCCAGGCCCTGGGGCTCCGGACAACTTGGGGGTGAGGGGAAGCAGGGCCTCTTGGGATT
TACTCTGTGGCTCTCAGGGCCAATAAAGCCATGTGATGATG

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FIGURE 5718

MQQQPLPGPGAPTTEPTKPPYSYIALIAMAIQSSPGQRATLSGIYRYIMGRFAFYRHNRPGWQNSIRHNLSLNEC
FVKVPRDDRKPGKGSYWTLPDCHDMFEHGSFLRRRRRFTROTGAEGTRGPAKARRGPLRATSQDPGVNPATTGR
QCSFPPELPDPKGLSFGGVLVGAMPASMCPTTDDGRPRPPMEPKEISTPKPACPGELPVATSSSSCPAFGFPAGFS
EAESFNKAPTIVLSPESGIGSSYQCRLQALNFCMGADPGLEHLLASAAPSPAPPTPPGSLRAPLPLPTDHKEPWV
AGGFPVQGGSGYPLGLTPCLYRTPGMFFFE

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FIGURE 5719

GGCACGAGGATCCCGGGGTCGCGCGAGAGCCGCAAGCGGAGTTGGTGGGCGCT**ATG**CTATCACCCGAGGCAGAGC
GAGTGCTGCGGTACCTTGTAGAAGTGGAGGAGCTCGCCGAGGAGGTGCTGGCGGACAAGCGGCAGATTGTGGACC
TGGACACTAAAAGGAATCAGAATCGAGAGGGCCTGAGGGCCCTGCAGAAGGATCTCAGCCTCTCTGAAGATGTGA
TGGTTTGCTTCGGGAACATGTTTATCAAGATGCCTCACCCCTGAGACAAAGGAAATGATTGAAAAAGATCAAGATC
ATCTGGATAAAAGAAATAGAAAACTGCGGAAGCAACTTAAAGTGAAGGTCAACCGCCTTTTTGAGGCCCAAGGCA
AACCGGAGCTGAAGGGTTTTAACTTGAACCCCTCAACCAGGATGAGCTTAAAGCTCTCAAGGTCATCTTGAAAG
GAT**G**AGACTCAAGAACCAAGATGGGGGACCAGCAACCCCCAGGGTCATGGAGGACCCAGGACCCTCCAACCTTG
ACACCTGTAAGGACAGGATCTGCCCTGTAAGGGGCCAGCCGTGAGGAATCTGGCCATGAAAACCTCTTTGTAGTG
CTTGGCTACTCTGTGATGGCAGGAGGGAACCTTCAGCCTGTCTGGCTGCTGGACCTGGACACCAGGGCTCGGTGG
ACACAAGATCTATTGACGGGCCTTGGTAGCCACCAAGTGGGTGTGTGGGGCAGTGGCTGTGGGGGTGTAAGAATGA
CTGCAACAGGCACTTCCCAACAATGGCCTGCTGTTTACATGGACCTGAGCAAGGAAGGAGGGAGGGAGGGGCAG
AGTGGAGTGTCAATTCCAGCATTCCTCTCAGAAGGGAGAGAGGTTTTAGGCTGGTGCCATGCGATTGGAATAAAG
CAGGAGGCTCATGGGTGGTTGCTGAATGAAGAACAGAATCTTGGTGCTTTGTGGCTCACCACAGCCATCTGTGGG
GCAGGCACACACACCTCCCGCCAGCTCCAATTTTGCACTTTTTCCCTGCTTGATTCCAAGAGTAGGTGCTGCCTA
GCAGCCCTTCGTGGCCACTCTTTACTCAGGAGGGCCTTGACAGAGTCTGCACCAGGCCTGGGTGAGTGGATGCGC
CTCTTACCATATGACACGTGTCAAGATGCCCTTCGCCCCCTCTGAAAGTGGGGCCCGGCCAGCACTGCTCGTTA
CTGTCTGCCTTCAGTGGTCTGAGGTCCCAGTATGAACTGCCGTGAAGTCAAACTCTTATGTGTTCAATTAAGGC
TCAATAAATGTTAGCTGAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5720

MLSPEAERVLRYLVEVEELAEVVLADKRQIVDLDTKRQNREGLRALQKDLSEDMVCFGNMFIKMPHPETKE
MIEKDQDHLDEIEKLRKQLKVKNRLFEAQGKPELKGFNPLNQDELKALKVILKG

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FIGURE 5721A

CCAAGATGGCGACGGCGATGGTGAAGGAGACTCCGGGAGCGGGAGCTGGAGCGGGGCCCTCCGGGGTATCC
CAGGATCTTCCAGCACCCCATGCCTGGCCCTGAGCCACCTCCGGGACCCCTGACTCAGGCCTGAGGGCTACCTCT
GACTGGGCTTGTCTTCCCCGAAATCCACCTCCCTGGCCCTGCCCTGCACTCAGGCTTGTGAAGGCCCGAGTTT
TGGGGGAGGCGCCGTTTCGGAGGAAGACCTCGGCTGCTGCCTTCGCCGGTTCCCATTTCTACTTTTGGTCTCCGCC
CACTGATTGGTTGCCGTGGTCTTTACTGCTTTTCTCCCTGATGTGTGAACAAGCGCTTCTATGTGCCTGGGGT
CGCGCCTATCAACTTCCACCAGAACGATCCCGTAGAAATCAAGGCTGTGAAGCTCACCAGCTCTCGAACCCAGCT
ACCTTATGAATACTATTCACTGCCCTTCTGCCAGCCAGCAAGATAACCTACAAGGCAGAGAATCTGGGAGAGGT
GCTGAGAGGGGACCGGATTGTCAACACCCCTTTCCAGGTTCTCATGAACAGCGAGAAGAAGTGTGAAGTTCTGTG
CAGCCAGTCCAACAAGCCAGTGACCCTGACAGTGGAGCAGAGCCGACTCGTGCCGAGCGGATCACAGAAGACTA
CTACGTCCACCTCATTTGCTGACAACCTGCCTGTGGCCACCCGGCTGGAGCTCTACTCCAACCGAGACAGCGATGA
CAAGAAGAAGGAAAAAGATGTGCAGTTTGAACACGGCTACCGGCTCGGCTTCACAGATGTCAACAAGATCTACCT
GCACAACCACCTCTCATTCATCCTTTACTATCATCGGGAGGACATGGAAGAGGACCAGGAGCACACGTACCGTGT
CGTCCGCTTCGAGGTGATTCCCCAGAGCATCAGGCTGGAGGACCTCAAAGCAGATGAGAAGAGTTCTGTCACCTCT
GCCTGAGGGTACCAACTCCTCGCCCCAAGAAATTGACCCACCAAGGAGAATCAGCTGTACTTCACCTACTCTGT
CCACTGGGAGGAAAGTGATATCAAATGGGCCTCTCGCTGGGACACTTACCTGACCATGAGTGACGTCCAGATCCA
CTGGTTTTCTATCATTAACTCCGTTGTTGTGGTCTTCTTCTGTGAGGTATCCTGAGCATGATTATCATTCCGGAC
CCTCCGGAAGGACATTGCCAACTACAACAAGGAGGATGACATTGAAGACACCATGGAGGAGTCTGGGTGGAAGTT
GGTGCACGGCGACGTCTTCAGGCCCCCAGTACCCCATGATCCTCAGCTCCCTGCTGGGCTCAGGCATTACAGCT
GTTCTGTATGATCCTCATCGTCATCTTTGTAGCCATGCTTGGGATGCTGTCGCCCTCCAGCCGGGAGCTCTCAT
GACCACAGCCTGCTTCTCTTCTCATGTTTATGGGGTGTGTTGGCGGATTTTCTGCTGGCCGTCTGTACCGCACTTT
AAAAGGCCATCGGTGGAAGAAAGGAGCCTTCTGTACGGCAACTCTGTACCCTGGTGTGGTTTTTGGCATCTGCTT
CGTATTGAATTGCTTCAATTGGGGAAAGCACTCATCAGGAGCGGTGCCCTTTCCACCATGGTGGCTCTGCTGTG
CATGTGGTTCGGGATCTCCCTGCCCTCGTCTACTTGGGCTACTACTTTCGGCTTCCGAAAGCAGCCATATGACAA
CCCTGTGCGCACCAACCAGATTCCCCGGCAGATCCCCGAGCAGCGGTGGTACATGAACCGATTGTGGGCATCCT
CATGGCTGGGATCTTGCCTTCGGCGCCATGTTTATCGAGCTCTTCTTCTCATCTTCAGTGCTATCTGGGAGAATCA
GTTCTATTACCTCTTTGGCTTCCCTGTTCTTGTGTTTTCATCATCTGCTGGTGGTATCCTGTTTCAAAATCAGCATCGT
CATGGTGTACTTCCAGCTGTGTGCAGAGGATTACCGCTGGTGGTGGAGAAATTCCTAGTCTCCGGGGGCTCTGC
ATTCTACGTCTGTTTATGCCATCTTTTATTTTCGTTAACAAGCTGGACATCGTGAGTTTATCCCTCTCTCCT
CTACTTTGGCTACACGGCCCTCATGGTCTTGTCTTCTGGCTGCTAACGGGTACCATCGGCTTCTATGCAGCCTA
CATGTTTGTTCGCAAGATCTATGCTGCTGTGAAGATAGACTGATTGGAGTGGACCACGGCCAAGCCTGCTCCGTC
CTCGGACAGGAAGCCACCCTGCGTGGGGGACTGCAGGCACGCAAAATAAAATAACTCCTGCTCGTTTGGAAATGTA
ACTCCTGGCACAGTGTTCCTGGATCCTGGGGCTGCGTGGGGGGGGAGGGCCTGTAGATAATCTTGGCTTTTTT
GTCATCTTATTCCAGTTCTGTGGGGGATGAGTTTTTTTTTGTGGTTGCTTTTTTCTTCACTGCTAAGAAAGTTCCCT
CCAACAGGAACCTCTGACCTGTTTATTTCAGGTGTATTTCTGTTTGGATTTTTTTTTTCTTCTTTGTTTTAACA
AATGGATCCAGGATGGATAAATCCACCGAGATAAGGGTTTTGGTCACTGTCTCCACCTCAGTTCCCTCAGGGCTGT
TGGCCACCCATGACTAACTGGAAGAGGACACGCCAGAGCTTCAGTGAGGTTTCCGAGCCTCTCCCTGCCCATCC
TCACCACTGAGGCCACGACAAAGCACAGCTCCAGCTCGGACAGCACCTCAGTGCCAGCCAGCCTCTGCCAGACC
TCTCTTTCCCTCTTCTCCCCAGCCTCCTCCAGGGCTGCCAAGGCAGGGTTTCCAGCCAGGCCTCGGGGTCACT
TTTACCAGGAGCAAACCCAAGTCTTAGTTGCTACAAGAAAATCCCCTGGAAGTACTGGGGGCCAGGTTCCCCAG
ACAGCAGGAATTGCCCTGTTCAGAGCAGCCGGAGTTTGTGACCACAAGGAAGAAGAGAAGAGACTTGCAGTG
AACTGTTTTTGTGCCAAGAAACCCCTGGACCTGGGGCCAAGTATTTCCCAAGCCAAGCATCCACTTGTCTGTGTCT
GGGAAGGGATGGCCAAGGCCGCTAGGGTCTTACCCCTCAGGATCACTCCCCAGCCCTTTCTCAGGAGGTACCG
CTCTCCAAGGTGTGCTAGCAGTGGGCCCTGCCAACTTCAGGCAGAACAGGGAGGCCAGAGATTACAGATCCCC
TCCTGTAAGTGGCCAGGCATTCTCTCCCTGCCCTCTCTGGCCTCTGGGGTCACTCACTTCTTTAGCCAGCCCC
ATCCCCCTCCACCCACACCTGAGTCTTGCCTCCTCCTTTTGGGGACACCCAAAACACTGCTTGTGAGAAGGAAG
ATGGAAGGTAAGTTCTGTGCTTCTTTCCCCAATCCCCAGGAATGGACAAGAAGCCAACCTTAGAAAGAAGGGTCTC
ACGTGGCTGGCCTGGCTCCTCCGTAGACCCCTGTTCTTTTCAACCTCTGCCACCCGTCATGTCTATCACAACA
TTTGCTCTTAAGTTACAAGAGACCACATCCACCCAGGGATTAGGGTTCAAGTAGCAGCTGCTAACCTTGCACCA

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FIGURE 5721B

GCCCTTGTGGGACTCCCAACACAAGACAAAGCTCAGGATGCTGGTGATGCTAGGAAGATGTCCCTCCCCTCACTG
CCCCACATTCTCCCAGTGGCTCTACCAGCCTCACCCATCAAACCAGTGAATTTCTCAATCTGCCTCACAGTGAC
TGCAGCGCCAAGCGGCATCCACCAAGCATCAAGTTGGAGAAAAGGGAACCCAAGCAGTAGAGAGCGATATTGGAG
TCTTTTGTTCATTCAAATCTTGGAATTTTTTTTTTCCCTAAGAGATTCTCTTTTAGGGGGAATGGGAAACGGAC
ACCTCATAAAGGGTTCAAAGATCATCAATTTTTCTGACTTTTTAAATCATTATCATTATTATTTTAATTAAAA
AATGCCTGTATGCCTTTTTTTGGTCGGATTGTAAATAAATATACCATTGTCCT

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FIGURE 5722

MCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYSLPFCQPSKITTYKAENLGEVLRGDRIVNTPFQV
LMNSEKKCEVLCSQSNKPVTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGY
RLGFTDVNKIYLNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDP
TKENQLYFTYSVHWEESEDIKWASRWDTYLTMSDVQIHWFSIINSVVVVFFLSGILSMIIIRTLRKDIANYNKEDD
IEDTMEESGWKLVHGDVFRPPQYPMILSSLLGSGIQLFCMILIVIFVAMLGMLSPSSRGALMTTACFLFMFMGVF
GGFSAGRLYRTLKGHRWKKGAFCTATLYPGVVFGICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLVYLG
YYFGFRKQPYDNPVRTNQIPRQIPEQRWYMNRFVGI LMAGILPFGAMFIELFFIFSAIWENQFYYLEFGFLFLVFI
ILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIFYFVNKLDIVEFIPSLLYFGYTALMVLSFW
LLTGITIGFYAAYMFVRKIYA AVKID

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FIGURE 5723A

ATGGCCCGACCGCCGCCACTACCGGGGCCTGAGGGGGCCTGGCGGAGCCCGAGCGCGGCCCCGGCCCGCAGCGTGG
GGCCCCGAGCGCGGTGAAGAGATTGTTTTCTGAAAGCTGCGTTGGAGGCTGTGACAGAGCTGAGAGCCTGTGTGG
AGCGGATGGGGAGGCTTTTCTCAATAACATGGCCCTTTGCCATTAGCCTTGCCATGACCACATTTTTCACCAGCGT
CCCCCCTGGATTCAAGATGCAAAGCAGGAGGAGGAAGTGGGCTGGAACTAGTTCCCAGGCCTCGGGGCCGGGA
GGCGGAGAGTCAAGTGAAGTGCCAATGTGAAATTTGGGAACACCTTTCTCAAATGGGGAGAAGCTGAGGCCCTCA
CAGCCTCCCGCAACCAGAGCAGAGACCATATAGCTGCCCTCAGCTGCACTGTGGCAAGGCTTTTGCTTCCAAATA
CAAGCTGTATAGGCACATGGCCACCCACTCAGCCAGAAACCCACCAGTGTATGTACTGTGATAAGATGTTTCA
CCGCAAGGACCATCTGCGGAACCATCTGCAGACCCATGATCTAACAAGAGGGCCCTCCACTGCTCTGAGTGCGG
TAAGAATTACAATACGAAGCTGGGCTACCGGCGCCACCTGGCCATGCATGCTGCCAGCAGCGGTGACCTCAGCTG
CAAGGTGTGCTGAGACCTTTGAGAGTACCCAGGCCCTGCTAGAGCACCTGAAGGCCCACTCACGCCGGGTAGC
AGGCGGTGCCAAGGAGAAGAAGCACCCCTGTGACCACTGCGACCGGCGGTTCTATACTCGTAAGGATGTACGGCG
GCACCTAGTGGTGACACAGGCCGTAAGGACTTCTGTGCCAGTACTGTGCCAGCGGTTTGCCGTAAGGACCA
CCTGACGCGTCATGTCAAGAAGAGCCACTCGCAGGAGCTGCTCAAGATCAAGACAGAGCCCGTGACATGTTAGG
CCTACTCAGCTGCAGCTCCACAGTCAGTGTGAAGGAAGAGCTGAGCCCTGTGCTGTGCATGGCCTCTCGGGACGT
AATGGGGACCAAGGCCTTCCCTGGCATGTTGCCATGGGCATGTATGGTGCCACATCCCTACCATGCCAGCAC
GGGCGTGCCACACTCCCTGGTGACACACGCTGCCATGGGTATGAGCTACCCCTCTGGAATCCTCACCTATCTC
TTCCCCAGCTCAGCTCCCTCCAAAATACCAGCTTGGATCTACCTCATACTTGCCCGACAAATTGCCCAAAGTGA
GGTGGATAGTTTTCTGGCGGAGCTTCTGGAAGCCTGTCTCTCTCATCCGCTGAACCCAGCCCGCCTCACCTCA
GCCGGCGGAGCTGCGGCCCTCCTAGATGAAGCACTGCTTGCCAAGAGCCCCGCCAACCTCTCTGAGGCCCTCTG
CGCTGCTAATGTGGACTTCTCCACCTACTGGGCTTTCTTCCACTCAACCTGCCCCGTGTAACCCACCTGGGGC
CACAGGAGGCTGGTTCATGGGCTACTCCAGGCTGAGGCACAGCCCCTGCTTACCCTTTGCAAGCTCAGCCTCA
AGATTCCCCAGGAGCTGGGGGACCACTGAACCTTTGGGCCTCTGCACTCCTTGCCCTCCTGTCTTACGTCTGGCCT
GAGTAGCACCACCCCTGCCTCGTTTCCATCAAGCATTCCAGTAGCCCCACAGAGGCCCTCAGCTCAGTTTTTGGC
TCTGTTATGGAGCCTTAGTACCCACCCCGTCTGTGTCCCCATGAAGGCAGCTGAGCTTTCAGAGCTGGGTTCAA
AAAAAAAAAATTCAGTGCTGTATACAGGAGCACTTGGTTTGGGGGTTGAGGCTCTAGGATCGATTCCAGAAGGA
GCCTTGAGCCCCAACCCCGTGAAAAGATCTCATACCGTAGGACTTCAGGTATTATTTACTTTTATTTTTTGGACC
TGAATCGGGAGCCACACTTGCCCTCTTCCCTCCTCAAAGCGCCAGAACCTCCTTCTCTTTGGAGAATGGGGAGGC
CTCTTGAGACACAGAGGGTTTACCTTGGATGACCTCTAGAGAAATTGCCAAGAAGCCACCTTCTGGTCCCCA
ACCTGCAGACCCACAGCAGTCAGTTGGTCAGGCCCTGCTGTAGAAGGTCACTTGGCTCCATTGCCTGCTTCCAA
CCAATGGGCAGGAGAGAAGGCCTTTATTTCTCGCCACCCATTCTCTCTGTACCAGCACCTCCGTTTTTCAGTCAG
TGTTGTCCAGCAACGGTACCGTTTACACAGTCACCTCAGACACACCATTTCACCTCCCTTGCCAAGCTGTTAGCC
TTAGAGTGATTGCAGTGAACACTGTTTACACACCGTGAATCCATTCCCATCAGTCCATTCCAGTTGGCACCAGCC
TGAACCATTTGGTACCTGGTGTTAACTGGAGTCTGTTTACAAGGTGGAGTCGGGGCTTGCTGACTTCTCTTCAT
TTGAGGTCACATTTTCCCCCGTGGGGAAATAAACTGACTTTGGACTGCTTCAGTCTCTGCCATCTTCCATGACT
GCATTTGTTCTCTGCCTGCCTCGGCGGTATCCACAGAAGACAGGCAAGAGGATTGGAGCAGTTTTCTCACAGGTCT
GCAATTCGTTTTTCTCCAAGTACATTATGACCCCTCATCCTTCTCTTGAAGTGGAGAGGGGAAGAAATGAAAG
GCATGCCACGTCCGTACCTCCCCATCCCTAGTCCCCACCTTGAACATCATGAGCTGTTGTTATTAGTCTTGG
AAGCAGAGTCTGGGTGGTGTGGATAGCAAAGGAGGAAGTCTGAGCCCTCATTTGGTCTTCTCTCCACCTGTCCC
TTTTCCGGGAAGTTGTGGAATTGTTGGAAGAAGAGTTTGAGAAGGTTAGGAATGGGTAGATAGCTAAGTCCATA
TCTATGGGTACATTGTTGTGTCCCAAACCAAAATTTTCTTATCCACAATGTCCCTTCTGTCTCTTCCACTTTAC
AGTGGACTCGGCCACTGTGCATAGGCTTCTCTGCTCTCCATCAAATCACTTCCACTTTCTGTGCCCCACCC
GCCTCCAGTTTTCCGCTAGTATCCGGCAAGGTTTCTTGCAACAAATGATTAGTTCTTTTCTTCTGACTCGTGGGG
CTCCCTGCTGCAGAGAGCACAGCCCTTGCCCTGGAGGCCAGGAACCCCATCCTTGCTTCATCTCAGTCTTTCATGG
GCTTCACTCTTCCCACTCACGGAAGGGAGGTAGCTCAGGGACCTCCACTGTGGGACCCCTTGAGACGCTTCCACTC
TGATTAGAAACACACTTCTACCTCTTTACTGTTAACTCTTAACAGATGCAGTCAGCAGTTTCTGGGCACTTCTC
TCAGTAGGTGCTTCATGCTGACTTCTCCAGTAGGGTTTTCAGGACAACTACCAAGGAATTGCCTCAGCCTCTAC
CAGTCTCTCCCTCACCCACCTTCTGTCTAGGTTCACTTGGTTTGTCTATCAGGAAGTGCAGAGGTCCAGGACTCAGC
TTTCTGCTTCAGCCTAAGCCAGTACTCCTTGTGAGGTAAAAGCCTTAAATTTAGCTCCCTAGCTCTTGATTA

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FIGURE 5723B

GAAGCAATTTGGAGTAAGTGTGTTTTGATTTAGGCAGGGTAGCTTGGGATACCTTTTTAAAAACACCAGATATTA
AAATGTCTGGCAAGGTTAGAATCAGACTAGATGATTTGCTTCTAAAAATTAGTTTCAGTGAGTCCCAGGGACTAA
TTAAGGTTTATTTTAAAAAGTGTCTACCTTGGTACGCAGCCACCTCCTGCATGCTGTGCATGTTATTGGGACTTG
TATTATAGGTGATGGTATGTGAGAATCCAGTTGGGACTCGCTGTTGCCATCCTCTTTGTTGTATCTGGTTTTTCAT
CACTAGACTCAGCAACCCCTTCTCACCTTAACCTGCCACCTTCCCTACACTCTCAGTTTACAGAGGCCACTGGGCCT
CTGGCTGCAGAATACAAAGTCCCGGGCTGTTAGAGGAGTCCTTTCTCTCTGCCTGCCCTTTCTGTCCCTCCCT
CGAATTCTCTCTCCCCGTAAGTGATGCTGGAAAAGTCATAGGACTGGCAAAGCAACTGTTTAAACCCTTTGTAAC
CGGGGCCCTTGCCCCCACCTCCTGTCTTTTCTCCTTGCCCTTCCCCACTCCTGTGTCTCTCCCATCTATCCTGTCTTT
CCTTTCTCTCTCTCAGTGCTCCTCAGCACCCACAAGGAATTTTCTATCACTGTGAACCTTGTCTGGTACAGAGGAA
TAATATCTGCCTTCACCTTTTTTTTTTTTGGACCATAGCTAGCCAGTCATTTCTTAAACCTCCCTTCTTAAATCT
GGGGGGTTCGGGGGGAAAGAAAAAAAAGCCTTAGTGCCCTGGTTGTTCAAAGGATAAGAATAGCTTTATCTTGCA
CTCAGTACCCGAACCTCACTTCAGTATGCTTACTGAGGCCATGAGAACCTGAGGGGCATCTGCCCAGGACAGGAGC
CATGGCATATGACAAAGACCAATGAGGGACCAGGAAAAAAGTGATGTCCCTTTCCCTGCCACCTCCAGCCTCT
GCCAGCAATGAGCTGTCCCCCTCCACCCTACACAGTAGCTGGTCAGGGCTGAGTACAGTCTGGGGGTAAGGGG
ATGACATGCCCAGGTGTCAGCTCAAAGGATCTCTGCATCATCTTGAGGTGGGAGGCAGGGAAAGGAGCGCCAATG
AGGTTCCCTGCAACCCCCGCCCTCCAGCCCACCGCCCAACCTTTTACAAATGGCATTCTTCTTAATTGAAAATCCG
GGAAGCAGGTGTGATTACTTTTTTGCTCGTAGATATTGTCCTAAGTTGGAATTCTCCCACTGCCCTAAAACCTTC
CCTAGTAGTCTTTAAACTCCCCCTCCCTTTTTGGTAGCTGTTTTCTCCGTCTCTCTCCACCTGCCCTCTTAT
CTAGGAGCTGTTTGTAAGCACGATTTTTTTAACAGGTTATATTGTACAGGATCAATATTTTGCTTTTTAACAAGG
ATATTTATGTAATAAGAACTTTGCCTTAGGCAGGTGTTGGCCAGAAAAGTCCAGATTCTCTGGGATCCCACCC
TGGCCTCTCCTGGAACCTCTGAACCTGCTGTGGAAGGAATTGGCCATGACCTTCACCTCTGGAGAGTAGGGTCTAT
GGCGAGGGAAAAGGGTGTTACCATGATAACCTAGTGCCCTCCATAGAGGGGTTTGGAAAAATTCCAGTCCGATTT
CTTTGTGTGTCAGCTGACTTCCTTAGCTGATTGTTCCCACTTGACCTCTCCACCTTTGGCACTAGAACTCCTGA
GACACCACTTCTCATGCTTCTCCCTCCCTACCAGCGGTCAAGGCTTTGGAGCCACTCTTTTGTAACCTCCAGATTA
TTTAAAGAGAAAAGTACAAGACAGAAATCTTCTAGCACTTTGTAAACACAGTGAATAACCTCTTGAGTATTTTT
GGCTTTATATAAAAACAAGGTTTTTAATTGTAAAGTATAAGTGCCATTAGAAAATGCACAGGGCATATCTTTGTTA
AAGTAGATTTTTCAATGTTTTACAGAATTACATTTTCAAAAAAGGTTTTTATAATGAAGTTGTTTATTAAAAAC
TTCTGAATGATG

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FIGURE 5724

MTTFFTSVPPWIQDAKQEEVGVKLVPRPRGREAESQVKCQCEISGTPFSNGEKLRRPHSLPQPEQRPYSCPQLHC
GKAFASKYKLYRHMATHSAQKPHQCMYCDKMFHRKDHLRNHLQTHDPNKEALHCSECGKNYNTKLGYYRRHLAMHA
ASSGDLSCKVCLQTFESTQALLEHLKAHSRRVAGGAKEKKHPCDHCDRRFYTRKDVRRHLVVHTGRKDFLCQYCA
QRFGRKDHLTRHVKKSHSQELLKIKTEPVDMLGLLSCSSTVSVKEELSPVLCMASRDVMGTAKFFGMLPMGMYGA
HIPTMPSTGVPHSLVHNTLPMGMSYPLESSPISSPAQLPPKYQLGSTSYLPDKLPKVEVDSFLAELPGSLSLSSA
EPQPASQPAAAAALLDEALLAKSPANLSEALCAANVDFSHLLGFLPLNLPPCNPPGATGGIVMGYSQAEAQPLL
TTLQAQPQDSPGAGGPLNFGPLHSLPPVFTSGLSSTTLPRFHQAFQ

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FIGURE 5725A

CTTCCCTCCCCGACTGTGCGCCGCGGCTGGCTCGGGTTCCCGGGCCGACATGGGCGCCGCCGCTGGGCACGGCC
GCTGAGCGTGTCTTTCTGCTGCTGCTTCTGCCGCTCCCGGGGATGCCTGCGGGCTCCTGGGACCCGGCCGGTTA
CCTGCTCTACTGCCCTGCGATGGGGCGCTTTGGGAACCAGGCCGATCACTTCTTGGGCTCTCTGGCATTGTGCAA
GCTGCTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAGCCTCCTTTCACCAACCTCCA
TGTTGCTTACCAGAACTTCAAGCTGGAGCCCCCTCCAGGCTTACCATCGGGTCATCAGCTTGGAGGATTTTCAT
GGAGAAGCTGGCACCCACCCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAG
CCCAGATAAGAAGACGTGCCCATGAAGGAAGGAAACCCCTTTGGCCCATCTGAGGATCAGTTTCATGTGAGTTT
CAACAAGTCGGAGCTTTTTACAGGCATTTCTTTCAGTGCTTCTACAGAGAACAATGGAGCCAGAGATTTTCTCC
AAAGGAACATCCGGTGCTTGCCCTGCCAGGAGCCCCAGCCAGTTCCCCGTCCTAGAGGAACACAGGCCACTACA
GAAGTACATGGTATGGTCAGACGAAATGGTGAAGACGGGAGAGGCCAGATTTCATGCCACCTTGTCCGGCCCTA
TGTGGGCATTTCATCTGCGCATTGGCTCTGACTGGAAGAACGCCTGTGCCATGCTGAAGGACGGGACTGCAGGCTC
GCATTTCATGGCCTCTCCGCGAGTGTGTGGGCTACAGCCGAGCAGCGGGCCCCCTCACGATGACTATGTGCCT
GCCTGACCTGAAGGAGATCCAGAGGGCTGTGAAGCTCTGGGTGAGGTGCTGGATGCCAGTCGGTCTACGTTGC
TACTGATTCCGAGAGTTATGTGCCTGAGCTCCAACAGCTCTTCAAAGGGAAGGTGAAGGTGGTGAAGCTGAAGCC
TGAGGTGGCCAGGTGACCTGTACATCCTCGGCCAAGCCGACCACTTTATTGGCAACTGTGTCTCCTCCTTAC
TGCTTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCGCTCTTCTTTCTTCGGCATGGACAGGCCCTTAAGCT
GCGGGACGAGTCTGATTCTGGCCGGAGCACCAGACCCTCTGATCCTGGAGGGACCAGAGTCTGAGCTGGTCTT
CCAGCCAGGCTTGGCAGCCAGAGGTGCTCCGGGATTGCAAACTCCTCTTCTCACCTGCCAAAGATGGAGAAGAGT
GCCAGGGACCCCTCAAGGAGGGAGACGCTCCATATCCAGGGCATAGGACTTGCAGGTTCTTAGGAGCAGGAGCA
TCTCCCATCGCACGTGCTTTCTGCTCTTCTGGGAATTTCTCACACTGGCAAAGCAGTCCAGCCTCCGTCTTCTGG
TCCACTCTGCTCTGAGCAGCCTGGGATGCTGAACCTTTCAGAGAGATTTTTTTATAGAGAGATTTCTATAATTTT
GATACAAGGTCATGACTATCCTAGAACTCTCTGTGGTTTTTTGAAAATCATTGAATTTCTATTAATGTAGGTACCTA
AAGTGACCTTAAGTGAATGTGGATGAGGCTGGGGCTGGTGTGGGCTTTTTGGCTGCTTTTCAAGGTGTCCCCAA
TGTGGCCCTCAAGAGCCATCCCCACTGCCTGGCCAGAGCCATTGTTGTCCCTACTTCTTAGGCCATTTCTGGGG
CTTGGGGGATGAATGCTGTCTGTCTGTAAACACTATGCAAATGGAAGTTATCGGTTGTGGTGTGTGCAGCGC
TCTGTGGGCGACTAAGTGCCACTCACGCAGCATGTTCTGGCAAGGAGCACATACCATCAAGCCACACTATCATG
GTATTGTTCTCACAGTCTTTTGGTGGTTGATGGCCACTGCAAACCTGGCACCATCAGATCTCTTCTGATCTCTTG
CCCCAGTGGGGCTGGTTGGTAGAATGTTGGCATTGGTTGATATCCAAAGCCTGTTCTCCAGCCGTCCTCTTG
CAGCTGGAGCCTTCAGGCCGATTCTCACGAGGGAACGTTTGCCAAGGCTCTGACCTCACAGAAGATGCCAGGG
CCCAGAAGCCATCAGAATTATCAGTGGAGAAGCACCTTTTGACTCTTCCCTTCCAATGTAATCTCTGCCAACACC
ATGAGGCTTAAGGTGCTCIAAGTCATGAGTGTGTTTGGTCTCAAATGCTGCAGTTTAATAATCTGTGACTCCTGA
GAGCCCATGGTTTTTTGACCTTGTGGTTCTAAATTCCTTGTCTGACCCCTGTAGATCTTTTCTTGCCATGTCA
CCTCCCTTGGCCTTTGATCCTGGAAAGGTGGCAGAGCCTCCACTGAGCCAGGCCAGAGCTCCTTGCAGTGCCTT
CTTCTTGTTTTACCTGTGGGAGGAAACACTTTTTTGTGAGGGGAGCCTGGTTCAGAGCTCAGAGGTCACACTG
TATCAAAGATCTCAAACAGCAAAGTCAGCATTGTCTGTATAGAGCTGCCACCCAACCTAAGCAGGAGAACTGT
ACAGAAAGGGCTTTGCTATTTTTCCCTTTTGGGAAAACAATGAAGTGTGTTAAGTCTGGGTGGACTGAGAGATG
GTTTGCTGTCCAGACTTGCTCTCAAGCCTCATCCAGAGAAGGAGCTGCAGATGAGGGAGCCCGTACACTCCCTG
CCACCACTAGGTTGTAAGCCTGTAGCTGGCTGGCTGATTTTCAATTTTGAATTCATTTGCCATCCACAGCCTTACA
CTAGGCACACACTTTAGAGTCTGGGGCTCCAGTGGGGCCCGCCTAATTTTTTTTCCCCCAAGACAGGGCCTTGC
TCTGTCTCCAGGCTGGAGTGCAGTGGCATGATCATGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGCGATCC
TTCTGCCTCAGCCTCTCTGGTAGCTGAGACTGCATGCCCAGCTCCAAATCACCTTGATTTCATATCAGCAGTAATA
ATCACTTGTGTTCTGAAAGAAAGGGCACCAGAAGTTCTAGCAAAATTCAGTTGTGTTCTGTGAGCTAGCACTTTT
TCTCTGACCCAATTTTCTTACCTATAAAATGGTGATAAAACCGACAGGTTGTTCAAAGGCCAGATCAGCTAA
AGCATGTATATAAGAGCACGTTGTAACTTGAAAGAGACAAAGGCACAAATGTGGCTGTTGATTAAATTTGACTGC
TTCTCGTTGCTCGTCACCTCCATGCCAGGCACTGTGCTTGCTAATTGCTTTATGGGGGCACTTCTTATTATTTTC
CCCAGCCCTGGGAAATAGGAGCTGTCAATTATCCTTCTCTTCTGCAACAAGGAAAAATTAATGCCCTGAGAATTGT
CATAATTTTCCCAAGGCTGCCAGCTGGTGGTGTAAAGCCAGAATTTGACCTCCAGAGCCAGTTTCCATTAGCT
GCCATGCTCTGCTGCCTCTAATTCACAGAATGCACCTTCTACCTGTGTGCCATGGAGACCTCCTATGGAAAAAT

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FIGURE 5725B

GATCAGCCACCTTACCTTCTACTGGGTACCTGCTGTGAGTCTGCCTATGCCAGAAGGATTAAGGAGGGGAGGTTA
CCCAAGAAACAAAGCCTACATGCCGCTTACAGCCCCGTTGGATGGTTGCTCAGTACAACAGTCTTGCAATTCAGC
AGGTGTTTGTTCATCACCTACTATGTGTCAGGCTCTATGCTAGGTACTGGGGATACAGGAGAGAATCAAGCGTAA
AGTCTTTGTCTCAAGGAATTTGCATTCTAGAAAGTAGAAGATGTAATAAATGTACTGTGGGACATGTTAATAAG
TGCTATAAAGAAATATAAAGGGTTTGGGAGCAAAAAGAGGGAGTGGATCTATTTTAGATGAGCCCAGGTAAGACC
TCTCTGAAGAGCTGTCATGAAGGAGGGAGGGAGCACATTCTGGCAGAGAAAACAGCACGTGCAAAGGCCCCGAG
ACTGGAGTGTGTTCTGAAGAGCAGCCAGGAGGCCAGCATGGCTGGAGAGGCAGGCATAGGCAGGGAACCGAGCA
GCAGGTCAAGCAGGCGAGCTGACATTCTGCAGCCTGGACGGCCATGGCAGGAAGCTTTTAGTTGGAGAGATACA
GGAAGCCTCCTAGGGTTCTGAGCAGAAGAGGGGCATGAGCTGATTACATTCTGAAGGACCTCTCTAGCTGGCCA
GTGCTGAGGAGGTTGGAGAGAGAAAAGGTGAAAGCAGAGAGACCAGTGCAGGGCTGTTAACAGGGTTGCAGGCGA
GAGACTGGGGTGCTGGGCTCCCCTAGACTAGGACTCCAGTGCCCTCCTCTCCCAAGAGACAAAGGCCATTGCATT
GAAGGAGGTGGGAAATGATTAGATTCTGAACATATGTAATTATTTTTTCAGTCTTTTTCAAAGATACAAATATTTA
CATAGTTTTAATCATGTAATATATACAATTTAATGTCTAGTGTTTTACTTAATAGTGTATCATGTTTTCCCTGT
TGGTATGTAGCCTGGATAAATGCTCTTAATTATAAAAAATTCTGTGAGGAGTGTTCATAGTTTATTGTTTTCC
TATTATGAGAATTTAGGCCAAGTGTGGTGGCTCATGCCTGTAATCCAGCACTTTGCGAGGCCGAGGTGGGCAGA
TCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAATTATCTCTACTAAAAATACAAAAAATAA
TAATAATAGCCAGGCGTGGTGGCACATGCCTGTATTCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATGGCTTGA
ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATGGTGCCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCA
TCTCAAAAAAAGGAGACTTCATGTGCCCCAATTTTTCACTATTGTTATTTGAAAAAATATTTTTATTGTAAAG
AGTTTTTCTTTATTTAAATGTTCAATTAATAAAGTTGTTGGACGGAAGCAAAAAAAGTTGTTTAAAGATAA
ATTCCCAGAAGTGAATTTGTTAGATCAAACACTTAAACTTTTTGTTATGGAAGAATTCAAATATAAATAAAAAA
TTGTGAGTAATAAATGAACCTCACAGTTTCAACAATGACCCAC

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FIGURE 5726

MGAAAWARPLSVSFLLLLLPLPGMPAGSWDPAGYLLYCPCMGRFGNQADHFLGSLAFAKLLNRTLAVPPWIEYQH
HKPPFTNLHVSQKYFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAAQRSPDKKTCPMKEGNPFGP
FWDQFHVSFNKSELF TGISFSASYREQWSQRFSPKEHPVLALPGAPAQFPVLEEHRPLQKYMVWSDVMKTGEAQ
IHAHLVRPYVGIHLRIGSDWKNACAMLDGTAGSHFMASPCVGYSRSTAAPLTMTMCLPDLKEIQRAVKLWVRS
LDAQSVYVATDSESYVPELQQLFKGKVKVSVSLKPEVAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSF
FGMDRPPKLRDEF

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FIGURE 5727A

ACCCACTCCCGCTGCCCGTCCGGCCCGCGCCGCTTCTCGCAGCAGCTGCTCCCGGCTCCGCGGCCGCGAGCCCG
CGTGGACGCTCCGAGCGCCCCCGACGGACGGGACCGGCTCCCTGGCGGTTCGGGCGAGCGGGCGGCAACGCTGCC
CGGCCGGCAGCGCTGGGGTTAAGTGGCCCAAGTAAACCTAGCTCGGCGATCGGCGCCGGAGATTTCGCGAGCCCGAG
CGCCCTGCACGGCCGCCAGCCGGCCTCCCGCCAGCCAGCCCCGACCCGCGGCTCCGCCGCCAGCCGCGCCCCAG
CCAGCCCTGCGGCAGGAAAGCATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAA
GACTCGATCCTCGTCAACGGGGCCTGCAGCGACCAGTCTCTCCGACTCGCCCCAATCCTGGAGGCTATCCGCACC
CCGGAGATCAGAGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGTCCAGTCTGCTAAGCTACACACAG
GACTTGACAGGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCAGTCATGCCAAAGCTCTTCCGGGAA
ACCAGGACTCGTTCAGAAAGCCAGCTGTCCGAACTCGAAATAACAACAGTGTCTCCAGCCGGGAGAGGCACAGG
CCTTCCCCACGTTCCACCCGAGGCCGGCAGGGCCGCAACCATGTGGACGAGTCCCCGTGGAGTTCCCGGCTACC
AGGTCCCTGAGACGGCGGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCCTCCAGCTCTTACCTTACCATC
GACCTCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCTACGCCCGCCTAGCCAG
GACAGCCAGCAGGGGGGCATGGAGTCCCCGAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTTACAGTATCAG
GATGGGAAGGAGTTTGGAATAGGGGACCTCGTGTGGGGAAGATCAAGGGCTTCTCCTGGTGGCCCGCCATGGTG
GTGTCTTGGAAGGCCACCTCCAAGCGACAGGCTATGTCTGGCATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAG
TTCTCCGAGGTCTCTGCAGACAACTGGTGGCACTGGGGCTGTTAGCCAGCACTTTAATTTGGCCACCTTCAAT
AAGCTCGTCTCCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAGCTAGGGTGCAGCTGGCAAGACCTTCCCC
AGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTTGGAGTGGGCCCACGGGGGCTTCAAGCCCACT
GGGATCGAGGGCCTCAAACCCAAACAACACGCAACCAGTGGTTAATAAGTCAAGGTGCGTCTGTCAGGCAGTAGG
AAATTAGAATCAAGGAAATACGAGAACAAGACTCGAAGACGCACAGCTGACGACTCAGCCACCTCTGACTACTGC
CCCGCACCCAAAGCGCCTCAAGACAAATTGCTATAACAACGGCAAAGACCGAGGGGATGAAGATCAGAGCCGAGAA
CAAATGGCTTCAGATGTTGCCAACAACAAGAGCAGCCTGGAAGATGGCTGTTTGTCTTGTGGCAGGAAAAACCCC
GTGTCTTCCACCCTCTCTTTGAGGGGGGGCTCTGTCTAGACATGCCGGGATCGCTTCTTGTAGCTGTTTTACATG
TATGATGACGATGGCTATCAGTCTTACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTCAGCAACACG
AGCTGCTGCCGGTGTCTTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGCCGAGGCCAAGCTT
CAGGAGCCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCTATGGCGTCTTCCGCGCCCGGAAGGACTGGAAC
GTGCGCCTGCAGGCCCTTCTTACCAGTGACACGGGGCTTGAATATGAAGCCCCCAAGCTGTACCCTGCCATTCCC
GCAGCCCGAAGGCGGCCCATTCGAGTCTGTCTATTGTTTGTGATGGCATCGCGACAGGCTACCTAGTCTTCAAAGAG
TTGGGCATAAAGGTAGGAAAGTACGTGCTTCTGAAGTGTGTGAGGAGTCCATTGCTGTTGGAACCGTGAAGCAC
GAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCACAAGAAAAATATTGAAGAATGGGGCCCATTTGAC
TTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAATGTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACA
GGCCGGCTCTTCTTCTGAATTTTACCACCTGCTGAATTACTCACGCCCCAAGGAGGGTATGACCGGCCGCTTCTT
TGGATGTTTGAAGATGTTGTAGCCATGAAGGTTGGCGACAAGAGGGACATCTCACGGTTCCTGGAGTGTAATCCA
GTGATGATTGATGCCATCAAAGTTTCTGCTGCTCACAGGGCCCGATACTTCTGGGGCAACCTACCCGGGATGAAC
AGGCCCCGTGATAGCATCAAAGAATGATAAACTCGAGCTGCAGGACTGCTTGAATACAATAGGATAGCCAAGTTA
AAGAAAGTACAGACAATAACCACCAAGTCGAACCTCGATCAAACAGGGGAAAAACCACTTTTCCCTGTTGTCTATG
AATGGCAAAGAAGATGTTTTGTGGTGCATGAGCTCGAAAGGATCTTTGGCTTCTCTGTGCACTACACAGACGTG
TCCAACATGGGCGGTGGTGCCCGCCAGAAGCTGCTGGGAAGGTCCTGGAGCGTGCCTGTCTATCCGACACCTCTTC
GCCCCCTCTGAAGGACTACTTTGCATGTGAATAGTTCCAGCCAGGCCCAAGCCCACTGGGGTGTGTGGCAGAGCC
AGGACCCAGGAGGTGTGATTCTGAAGGCATCCCCAGGCCCTGCTCTTCTCAGCTGTGTGGGTCTATACCGTGTA
CCTCAGTTCCCTCTTGTCTAGTGGGGCAGAGCCACCTGACTCTTGCAGGGGTAGCCTGAGGTGCCGCTCCTTG
TGCACAAATCAGACCTGGCTGCTTGGAGCAGCCTAACACGGTGTCTATTTTTTCTTCTCTCTAACTTTAACT
TGAAGTAGGTAGCAACGTGGCTTTTTTTTTTCCCTTCTGGGTCTACCCTCAGAGAAACAATGGCTAAGATAC
CAAAACCACAGTGCCGACAGCTCTCCAATACTCAGGTTAATGCTGAAAAATCATCCAAGACAGTTATTGCAAGAG
TTTAATTTTTGAAAAGTGGCTACTGCTCTGTGTTTACAGACGTGTGAGTTGTAGGCATGTAGCTACAGGACATT
TTTAAGGGCCCAGGATCGTTTTTTCCAGGGCAAGCAGAAGAGAAAATGTTGTATATGTCTTTTACCCGGCACAT
TCCCTTGCCCTAAATACAAGGGCTGGAGTCTGCACGGGACCTATTAGAGTATTTTCCACAATGATGATGATTCA
GCAGGGATGACGTCATCATCATTCAGGGCTATTTTTTCCCCACAAACCAAGGGCAGGGGCCACTCTTAGCT

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FIGURE 5727B

AAATCCCTCCCCGTGACTGCAATAGAACCCTCTGGGGAGCTCAGGAAGGGGTGTGCTGAGTTCTATAATATAAGC
TGCCATATATTTTGTAGACAAGTATGGCTCCTCCATATCTCCCTCTTCCCTAGGAGAGGAGTGTGAAGCAAGGAG
CTTAGATAAGACACCCCTCAAACCCATTCCCTCTCCAGGAGACCTACCCTCCACAGGCACAGGTCCCCAGATGA
GAAGTCTGCTACCCTCATTCTCATCTTTTTACTAACTCAGAGGCAGTGACAGCAGTCAGGGACAGACATACAT
TTCTCATACCTTCCCCACATCTGAGAGATGACAGGGAAAACCTGCAAAGCTCGGTGCTCCCTTTGGAGATTTTTTA
ATCCTTTTTTATTCCATAAGAAGTCGTTTTTAGGGAGAACGGGAATTCAGACAAGCTGCATTCAGAAATGCTGT
CATAATGGTTTTTAACACCTTTTACTCTTCTTACTGGTGCTATTTTGTAGAATAAGGAACAACGTTGACAAGTTT
TGTGGGGCTTTTTATACACTTTTAAAATCTCAAACCTTCTATTTTTATGTTTAACGTTTTCATTAAAATTTTTTT
TGTAACCTGGAGCCACGACGTAACAAATATGGGGAAAAAAGTGTGCCTTGTTTCAACAGTTTTTGCTAATTTTTAG
GCTGAAAGATGACGGATGCCTAGAGTTTACCTTATGTTTAATTAAAATCAGTATTTGTCT

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FIGURE 5728

ACGAGACGAAGACGGAACCGGAGCCGGTTGCGGGCAGTGGACGCGGTTCTGCCGAGAGCCGAAGATGGCAGTGAA
CGTATACTCAACGTCAGTGACCAGTGATAACCTAAGTCGACATGACATGCTGGCCTGGATCAATGAGTCTCTGCA
GTTGAATCTGACAAAGATCGAACAGTTGTGCTCAGGGGCTGCGTATTGTGAGTTTATGGACATGCTGTTCCCTGG
CTCCATTGCCTTGAAGAAAAGTGAAATTCCAAGCTAAGCTAGAACACGAGTACATCCAGAACTTCAAATACTACA
AGCAGGTTTTTAAGAGAATGGGTGTTGACAAAATAATTCCTGTGGACAAATTAGTAAAAGGAAAGTTTCAGGACAA
TTTTGAATTCGTTTCAGTGGTTCAAGAAGTTTTTTCGATGCAAACTATGATGGAAAAGACTATGACCCTGTGGCTGC
CAGACAAGGTCAAGAAAAGTGCAGTGGCTCCTTCCCTTGTGCTCCAGCTCTGAATAAACCGAAGAAACCTCTCAC
TTCTAGCAGTGCAGCTCCCCAGAGGCCCATCTCAACACAGAGAACCGCTGCGGCTCCTAAGGCTGGCCCTGGTGT
GGTGCGAAAGAACCCTGGTGTGGGCAACGGAGACGACGAGGCAGCTGAGTTGATGCAGCAGGTCAACGTATTGAA
ACTTACTGTTGAAGACTTGGAGAAAAGAGAGGGGATTTCTACTTCGGAAAGCTACGGAACATTGAATTGATTGTCCA
GGAGAACGAGGGGGGAAAACGACCCTGTATTGCAGAGGATTGTAGACATTCTGTATGCCACAGATGAAGGCTTTGT
GATACCTGATGAAGGGGGGCCACAGGAGGAGCAAGAAGAGTATTAACAGCCTGGACCAGCAGAGCAACATCGGAA
TTCTTCACTCCAAATCATGTGCTTAAGTGTAAATACTCCCTTTTGTATCCTTAGAGGACTCACTGGTTTCTTT
TCATAAGCAAAAAGTACCTCTTCTTAAAGTGCACCTTTCAGACGTTTCACTCCTTTTCCAATAAGTTTGAGTTAG
GAGCTTTTACCTTGTAGCAGAGCAGTATTAACACCTAGTTGGTTACCTGGAAAACAGAGAGGCTGACCGTGGGG
CTCACCATGCGGATGCGGGTCACACTGAATGCTGGAGAGATGTTATGTAATATGCTGAGGTGGCGACCTCAGTGG
AGAAATGTAAAGACTGAATTGAATTTTAAGCTAATGTGAAATCAGAGAATGTTGTAATAAGTAAATGCCTTAAGA
GTATTTAAAATATGCTTCCACATTTCAAATATAAAATGTAACATGACAAGAGATTTTGCCTTTGACATTGTGTC
TGGAAGGAAGGGCCAGACCTTGGAACCTTTGGAACCTGCTGTCAACAGGTCTTACAGGGCTGCTTGAACCCTCA
TAGGCCTAGGCTTTGGTCTAAAAGGAACATTTAAAAGTTGCCCTGTAAAGTTATTTGGTGTGATTGACCAATTG
CATCCCAGCTAAAAGCAAGAGGCATCGTTGCCTGGATAATAGAGGATGTGTTTCAGCCCTGAGATGTTACAGTT
GAAGAGCTTGGTTTTTCATTGAGCATTTCCTCTATTTTTCCAGTTATCCCCGAAATTTCTATGTATTATATTTTTTG
GGGAAGTGAGGTGTGCCAGTTTTTTAATCTAACAATACTTTTTGGGGACTTGCCACATCTCTGGGATTTGAAT
GGGGATTGTATCCCATTTTACTGTCCTTTAGGTTTACATTTACCACGTTTCTCTTCTGCTCCCCCTGCCACT
GGGACTCCTCTTTGGCTCCTTGAAGTTTGCTGCTTAGAGTTGGAAGTGCAGCAGGCAGGTGATCATGCTGCAAG
TTCTTTCTGGACCTCTGGCAAAGGGAGTGGTCAGTGAAGGCCATCGTTACCTTGGGATCTGCCAGGCTGGGGTGT
TTTCGGTATCTGCTGTTACAGCTCTCCACTGTAATCCGAATACTTTGCCAGTGCACCTAATCTCTTTGGAGATAA
AATTCATTAGTGTGTTACTAAATGTTAATTTTCTTTTTCGCGAAAATACAGTACCGTGTCTGAATTAATTATTAAT
ATTTAAAATACTTCATTCTTAACCTCTCCCTCATTGCTTTGCCACAGCCTATTCAGTTCCTTTGTTTGGCAGG
ATTCTGCAAAATGTGTCTCACCCTACTGAGATTGTTTCAGCCCCTGATGTATTGTATTGATTGTTTCTGGTG
GTAGCTTGTCTGAAATGTGTGTAGAAAGCAAGTATTTTATGATAAAAATGTTGTGTAGTGCATGCTCTGTGTGG
AATTCAGAGGAAAACCCAGATTTCAGTGATTAACAATGCCAAAAATGCAAGTAAGTACCATTTGTTCAAATGACA
GTGGTGCTATTTCTCTTTTGTGGCCTTTTAGACTTTTGTGCCCCTAAAATTCCATTTTATTGGGAACCCATTTTC
CACCTGGTCTTTCTTGACAGGGTTTTTTTCTACTTTAAACAGTTTCTAAATAAAATTCTGTATTTCAGAG

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FIGURE 5729

AGAGAGGAGCGGGCCGAGGACTCCAGCGTGCCCAGGTCTGGCATCCTGCACTTGCTGCCCTCTGACACCTGGGAA
GATGCCCGGCCCGTGGACCTTCACCCTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCC
CACTGCAGTTCTCATCCTCGGCCCAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAACGCCAC
CAGCATCCTGCAGCAGCTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGAGGCATCCCTGTGCTGGGCAG
CCTGGTGAACACCGTCCTGAAGCACGTTCATCTGGCTGAAGGTTCATCACAGCTAACATCCTCCAGCTGCAGGTGAA
GCCCTCGGCCAATGACCAGGAGCTGCTAGTCAAGATCCCCCTGGACATGGTGGCTGGATTCAACACGCCCCCTGGT
CAAGACCATCGTGGAGTTCCACATGACGACTGAGGCCCAAGCCACCATCCGCATGGACACCAGTGCAAGTGGCCC
CACCCGCTGGTCTCAGTGACTGTGCCACCAGCCATGGGAGCCTGCGCATCCAACCTGCTGCATAAGCTCTCCTT
CCTGGTGAACGCCTTAGCTAAGCAGGTTCATGAACCTCCTAGTGCCATCCCTGCCCAATCTAGTGAAAAACCAGCT
GTGTCCCGTGATCGAGGCTTCCTTCAATGGCATGTATGCAGACCTCCTGCAGCTGGTGAAGGTGCCCATTTCCCT
CAGCATTGACCGTCTGGAGTTTGACCTTCTGTATCCTGCCATCAAGGGTGACACCATTAGCTCTACCTGGGGGC
CAAGTTGTTGGACTCACAGGGAAAGGTGACCAAGTGGTTCAATAACTCTGCAGCTTCCCTGACAATGCCACCCT
GGACAACATCCCGTTTCCAGCTCATCGTGAGTCAGGACGTGGTGAAAGCTGCAGTGGCTGCTGTGCTCTCTCCAGA
AGAATTCATGGTCCTGTTGGACTCTGTGCTTCCTGAGAGTGCCCATCGGCTGAAGTCAAGCATCGGGCTGATCAA
TGAAAAAGGCTGCAGATAAGCTGGGATCTACCCAGATCGTGAAGATCCTAACTCAGGACACTCCCGAGTTTTTTAT
AGACCAAGGCCATGCCAAGGTGGCCCAACTGATCGTGCTGGAAGTGTTCCCTCCAGTGAAGCCCTCCGCCCTTT
GTTACCCCTGGGCATCGAAGCCAGCTCGGAAGCTCAGTTTTACACCAAAGGTGACCAACTTATACTCAACTTGAA
TAACATCAGCTCTGATCGGATCCAGCTGATGAACCTCTGGGATTGGCTGGTTCCAACCTGATGTTCTGAAAAACAT
CATCACTGAGATCATCCACTCCATCCTGCTGCCGAACCAGAATGGCAAATTAAGATCTGGGGTCCCAGTGTCATT
GGTGAAGGCCTTGGGATTCGAGGCAGCTGAGTCTCACTGAGCAAGGATGCCCTTGTGCTTACTCCAGCCTCCTT
GTGGAAACCCACCTCTCCTGTCTCCAGTGAAGACTTGGATGGCAGCCATCAGGGAAGGCTGGGTCCCAGCTGGG
AGTATGGGTGTGAGCTCTATAGACCATCCCTCTCTGCAATCAATAAACACTTGCCTGTGAAAAAAAAAAAAAAAAA
AAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5730

MAGPWTFLLCGLLAATLIQATLSPTAVLILGPKVIEKLTQELKDNATSILQQLPILLSAMREKPAGGIPVLGS
LVNTVLKHVIWLKVITANILQLQVKPSANDQELLVKIPLDMVAGFNTPLVKTIIVEFHMTTEAQATIRMDTSASGP
TRLVLSDCATSHGSLRIQLLHKLSFLVNALAKQVMNLLVPSLPNLVKNQLCPVIEASFNGMYADLLQLVKVPISL
SIDRLEFDLLYPAIKGD TIQLYLGA LLDSQGKVTKWFNNSAASLTMP TLDNIPFSLIVSQDVVKA AVA AVLSPE
EFMVLLDSVLPESA HRLKSSIGLINEKAADKLGSTQIVKILTQDTPEFFIDQGHAKVAQLIVLEVFP SSEALRPL
FTLGIEASSEAQFYTKG DQLILNLN NISSDRIQLMNSGIGWFQPDVLKNIITEIIHSILLPNQNGKL RSGVPVSL
VKALGFEEAAESSLSKDALV LTPASLWKPTSPVSQ

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FIGURE 5731

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCCGTCTCCCCAGAACCGCTGTTGTCCCGGATGGGCAGCCTGC
GGGCTCCCGTGGACGAGGACCGCCTGTCCCCGTGGTGGCGGCCGACTCGCTCCTGGAGCATGTGCGGGAGGACT
TCTCCGGCCTCCTCCCTGAGGAGTTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCACTTCGGCCTCG
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTTCTGACAGGGCT
TGGAGGGACCAGGGTTTCCAGAGATGCTCACCTTGTCTCTGCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCTCTCC
CAGCCTGTTTGAAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC
CGCTAGGAGGCTGAGCAAGCCAGGAAGGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACACG
TGTGTACCGGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT
AACTGCACTTTCGGCCCTTTTGCTCTGGGGGTCCACAAGGCCAGGGCAGTGCCTGCTCCCAGAATCTGGTGCT
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAATCAGCAAAGG
GGAGGAGGGGTGTGGGGTTGATACCCCAACTCCCTCTACCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTTCTTC
TGCCCCATACTGAAGGAACTGAGGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGACTGA
CAGCCATGGGTGGTCAGATGGTGGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT
GGATATGAGATGGGAGAGGTGAGTGGGGACCTTCACTGATGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCCAGC
CCAGACCCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCTGCCTCCCCACTGCTCTGCCCCACCCTCCAATCTGCA
CTTTGATTTGCTTCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG
GTTTTGGGACTCTGTTGGGAACATTTGCGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCATTCTCCACTTC
CCTTCTCCCTGTCCGTGCCGATTTGATTTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCCTCGCTGTTTTGGT
CCTAACTCAAAAGCAGATCCAGTAAAGGTTTTTTGTTGT

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FIGURE 5732

MALAGAPAGGPCAPALEALLGAGALRLLDSSQIVIIISAAQDASAPPAPTGPAAAPAAGPCDPDLLLLFATPQAPRPT
PSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGRHPGKGVKSPGEKSRYETSLNLTTRFLELLSHSADGV
VDLNWAAEVLKVQKRRIYDITNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLMN
ICTTQLRLLSEDTDSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSSENFQISLKSQGPIDVFLCPE
ETVGGISPGKTPSQEVTSEENRATDSATIVSPPPSSPPSSLTTDPSQSLLSLEQEPLL SRMGSLRAPVDEDRLS
PLVAADSLLEHVREDFSGLLPEEFISLSPHEALDYHFGLEE GEGIRD LFD CDFGDLT PLDF

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FIGURE 5733

CGCGCGAGCGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGCGGCGACGGCGACGA
CGACGACTCCCGCGCGTGTGCCCAGCCTCTTCCCGCCGAGCCGCCCTTTTCCCTCCCTCCCTTACGTCCCCGAGT
GCGGCAGTACCGCCTCCTTCCCAGCCGCGCGGCTTCCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG
GCAGGTGGTGCTGACCCTGTAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAT
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG
TTCTGTGCACAAGGGCTATGCCTTTGTTTCAGTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGCTGGGAGAGAA
TGGGCGGGTGCTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCT
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG
GCTCTTCGACTACCGGGGCCGTCTGTGCCCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCACCACCAG
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT
CGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA
TGGAGGTGGCGCCGGCGGGCGGGCGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG
CAGCAGCCGGCCACCAGCCCCCAAGAGAACACAACCTTCTGAGGCAGGCCTGCCCCAGGGGGGAAGCACGGACCCG
AGACGACGGCGATGAGGAAGGGCTCCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGCGGA
TGATGGGGCCTTGCAAGTAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC
TCAAGCCGGGCACCCAACCCTGGATGCCACCCCCAGCGGGTACCAGAGGAAAAGCTGGCAGCAGGCGCCTCCTCC
CCCAACGCATCCCAGCCAGTGCCATGTCCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC
TGTCTGCACTGCCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCCATACTACCTCCCCCTCCCCAGGACACTCCCA
GGCTTGGGTTTTTTCTATAGGTTTGGCGGGGGCCACAGGGAGGGGACCCTGACAATAAAGAGATTGGATCCCAA
AAAAAAAAAAAAA

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FIGURE 5734

CGTTGAAGACATTGTCGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTGTATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAAGACCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAAGTGGAGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
GGAAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAA
AGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCAGATGAGG
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTTCAGTAATC
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
TGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAG
TAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAAACATCTCC
TTGCATTTTTGTTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACTTGTCACACATGCCGATCAC
CGGACACAATCCTGCAGAAGGACATACGACTCTATTTCTACAGTGCGAAAACCTTGTCATTCTAGATGTTCTGTTG
CCAGTATCAAAACCGGCTTCCAGGCTGTACAGGGCAAGCGAGCACAGCTCCGTGCCAAAAGCTAACTAAATTTGCTA
ATCACTGATTTTGCAAAGCTTGTGTTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTGCCTACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTT
AAAATCGTTCATAGACTTCTGTAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

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FIGURE 5735

MSGDEMIFDPTMSKKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLIMLGNNKKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCSVASIKTGFQAVTGKRAQLRAN

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FIGURE 5736

CTGAGGCCCAGCCCCCTTCGCCCCGTTTCCATCACGAGTGCCGCCAGCATGTCTGACAAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA
CGGCCGTCTCATTGAGACCCTCGTACCCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCATTGAGCAGACCCCTGTACTTCAAGGACGGGCCCCCTCAACATGATTCTGGACGACGGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGCAAGGTAGCGGTGGTAGCAGGCTATGGTGATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGTT
TCGGAGCCCCGCTCATCATCACCGAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTGAGGAGGGCAACATCTTTGTACCACCACAGGCTGTATTGACATCATCCTTGGCC
GGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAACATTGGACACTTTGACGTGGAGATCGATGTCAAGT
GGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGACCGGTATCGGTTGAAGAATGGGCGCC
GCATCATCCTGCTGGCCGAGGGTCGGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCTTCGTGATGAGTA
ACTCCTTACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCCAGACAAGTACCCCGTTGGGGTTTCATT
TCCTGCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGCTAA
CTGAGAAGCAAGCCCAGTACCTGGGCATGTCCTGTGATGGCCCCCTTCAAGCCGGATCACTACCGCTACTGAGAGC
CAGGTCTGCGTTTACCCCTCCAGCTGCTGTCCTTGGCCAGGCCCCACCTCTCCTCCCTAAGAGCTAATGGCACCA
ACTTTGTGACTGGTTTGTGAGTGTCCCCATCGACTCTCTGGGGCTGATCACTTAGTTTTTGGCCTCTGCTGCAG
CCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCCTCTTCAAGCCCCGGTCATGATGGAGGTCCCAGC
CACAGGGAACCATGAGCTCAGTGGTCTTGGAACAGCTCACTAAGTCAGTCCTTCCTTAGCCTGGAAGCCAGTAGT
GGAGTCACAAAGCCCCATGTGTTTTGCCATCTAGGCCTTCACCTGGTCTGTGGACTTATACCTGTGTGCTTGTTTT
ACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGGCTATATTGAAGGGCAAAGAGGAACTGTTGTTTG
AATTTTCCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCATTACAATGAGGTTAGTACTTTTAGTCC
CTGTTTTACAGGGGTTAGAATAGACTGTTAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTTGAG
AGGGGCCAGAAAAACATGAATGCAGGCAGATTTCTGTAATCTGCCACCACTTTATAACCAGATGGTTCCTTTCA
CAACCCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTTAAAAGAAAGCAGGAAGGTGGGTAAATAAAAAATCT
TGGTGCCTGG

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FIGURE 5737

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYASASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQ
WSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGI
RGISEETTTGVHNLYKMMANGILKVPAINVND SVTKSKFDNLYGCRESLIDGIK RATDVMIAGKVAVVAGYGDVG
KGCAQALRGFGARV IITEIDPINALQAAMEGYEVTTMDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG
HFDVEIDVKWLNENAVEKVNIPQVD RYRLKNGRRIIL LAEGR LVNLGCAMGHP SFVMSNSFTNQVMAQIELWTH
PDKYPVGVHFLPKKLDEAVAE AHLGKLN VKLTKLTEKQAQYLGMSCDGPFPKPDHYRY

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FIGURE 5738

GGGAGAACCGTTTCGCGGAGGAAAGGCGAACTAGTGTTGGGATGGCCACCAACTGGGGGAGCCTCTTGCAAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCCTTCTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCCTACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGATGCTGTGTCAGCCAGAACGCTGCCTTCCTGGA
GCAAACTCTTTCCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCCTAAA
AGAGGGCATTGCCCAGACTGTGTTCTTGGGCCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCCCTGGCCTCCCGGACCCCAGCTGT
GCACCGACATGTTCTCAGTGTCCTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTCAGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTCACATGCTGCCAAGTGCCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGTGGAGGTAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCTCCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG
GCCTGGCAGCCCTGCCCAGTGTTCCAGTGCATTTTCAGAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTCGAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCTTGACAACCCATACCCTGTGTGAGGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCATTCTCTCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAAGTTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCCAGCTTTCCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCCTGCCCCACTCC
TGTCAGCCCCCTCATCAGCCTTTTCAGCAGGTTCCAGTGCCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAACTGCATTGCTGT

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FIGURE 5739

MATNWGSLQDKQQLEELARQAVDRALAEGLLRSTSQEPTSSEVVSYAPFTLFPSLVPSALLEQAYAVQMDFNLL
VDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRSYMFQRSADGSPALKQIEINTISA
SFGGLASRTPAVHRHVLVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIEN
ELLARNIHVIRRTFEDISEKGS LDQDRRLFVDGQEI AVVYFRDGYMPRQYSLQNWEARLLERSHAAKCPDIATQ
LAGTKKVQQELSRPGMLEMLLPGQPEAVARLRATFAGLYSLDVGEEGDQAIAEALAAPS RFVLKPQREGGGNNLY
GEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVVQCI SELGIFGVYVRQEKTLMNKHVGHLLR
TKAIEHADGGVAAGVAVLDNPYPV

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FIGURE 5740

GGAAGAACCCGCAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC
GAGCTCTATGCCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC
AGGTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTACGA
CAGCTACCTGGAGAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG
TTTCTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATTCCAAAGAGTGGT
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGAAACAAACATTTCGAGTGGT
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGG
GCCTCTCCTGAGAATGGCTGAGGAGGCGGCCGAAAACCTCCACGCCTTTCAGACCCCCACTGGCATGCCATA
TGGAACAGTGAACTTACTTCATGGCGTGAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT
CATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTCGAAGATGTGGCCAGAGTGGCTTTGAT
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC
CCAGGACGCAGGCATCGGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGA
TAAGAAGCTCATGGCCATGTTCCCTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT
GTGGGTTTCAGATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCCTTGAGAGCCTACTGGCCTGGTCTTCA
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCCTCAACTACTACACTGTATGGAAGCAGTTTGGGGG
GCTCCCGGAATTCTACAACATTCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACT
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCACCCCTCCTAGAACTCGGAAGAGATGCTGTGGA
ATCCATTGAAAAAATCAGCAAGGTGGAGTGC GGATTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA
CCGCATGGAGTCGTTCTTCCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA
CAACAATGGGTCCACCTTCGACACGGTGATCACCCCTATGGGGAGTGCATCCTGGGGGCTGGGGGGTACATCTT
CAACACAGAAGCTCACCCCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGTGCAGGTGCAAATTTAGAAAAACACTGTTAGTTCGGG
GCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC
TGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGTCAGCCCTTACCTCCAAGTTGGCATTACTGGGACAGGT
TTTCCTAGACTCCTCATAACCACTGGATAATTTTTTTATTTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT
TTTGGCTATC

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FIGURE 5741

MPFRLLIPLGLLCALLPQHGGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFPFDELRPLTCDGHDTWGSFS
LTLIDALDILLILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLSSKKAGVEVEAGWPCSGPL
LRMAEEAARKLLPAFQPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRL
WESRSDIGLVGNHIDVLTGKWVAQDAGIGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDWYLVV
QMYKGTVSMFVFSLEAYWPGLOSLIGDIDNAMRTFLNYYTVWKQFGGLPEFYNIPOQGYTVEKREGYPLRPELIE
SAMYLYRATGDPTLLELGRDAVESIEKISKVECGFATIKDLRDHKLDNRMESFFLAETVKYLYLLFDPTNFIHNN
GSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRCSRKFQKNTVSSGPW
EPPAREPGTLFSPENHDQARERKPAKQKVPLLSCPSQPFTSKLALLGQVFLDSS

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FIGURE 5742

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAAGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTTGAGTCACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCCCTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCCATTAAGTGCAGTTCCTCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5743

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGLLVPNN
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTENDYVALVHPDLDRATEEILADVLEKVEVFRQTVADQVLVGS
YCVFSNQGGLVHPKTSIEDQDELSSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLN
EAQPSTIATSMRDSLIDSLT

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FIGURE 5744A

CGTTCGGGCAGCGGCCTCTTGTTACCCGGGGCCCGCTTGCCTCAGCTTCTTGCTGCCGCCAGCACGCTAAGCTCC
AGTCGGCGCCGAAGGAGAGCTTCCCGACCTCTGTGTCCAGTAGCCGCAATCCAGGCTGGGAGGGTGAGGCGCCG
CGCTCTGCCGCCCCCGCCCTCGCTCCCTGTGTCTGGCGGATTTGCACGTAATCTATCCGAAAGCCCAGTCC
CACCCGCCACCCGACTCTGGAGCTCCCATTTCTCAGGACCTGTCTGAAGTATCGCTTCTCAGCCGCTTCTCCAG
GCGCAGCTGCATTCTGCTTCTCGGTTTTTGCACCTCGCTGTGCACCGAGTTACTTTCCCGGCCCTCGTTGACACCG
TTCACAGGTGGCTGTTGGTCTTTAGTAAGGGTGTCTGTCTTCCCTGTCTGATCCTTAGCAAAAGTAGGAAGGTAGA
GTTGTTGGCAGAAATCCTGGGATAAGAGAATAGTTTCTTGGAAAGATCTGTGCCTCCAACCAGCAGAGAGGGATTG
AGCTTCATTGAACTCAACAGAGCCAACATTTTCATAGCACCATGTTCAAGAGGAGGTTGAAGTGGCATGGCAATGG
TTAGAGACCCTGTCTGGGCGTGAACACCTCTGGCTACCTAGGGACCTGTGGGCTACCACCTGGTGCCCTCATGG
AGACAAGAAGCCCTGGGTTGAACAACATGAAGCCCCAGTCACTGCAGCTGGTACTGGAAGAGCAGGTGCTGGCAC
TACAGCAGCAGATGGCAGAGAATCAGGCAGCTCCTGGCGGAAGCTGAAGAACTCCAGGAGGCCAGCAGAGAC
AAGCAACCTTTGTGAGGAAGCTGCAGGCCAAGGTGTCTGCAGTACCGAAGCTGGTGCCAAGAGCTGGAGAAGCGGC
TAGAAGCCACTGGAGGACCAATCCCCAGAGGTGGGAAAATGTGGAGGAGCCAAACCTGGATGAGCTGCTGGTCC
GATTGGAGGAGGAGCAACAGAGGTGTGAGAGTCTAGCAGAGGTGAACACCCAGCTTCGACTGCACATGGAAAAAG
CTGACGTGGTGAATAAAGCCCTTAGGGAAGATGTGGAAAACTGACAGTGGACTGGAGCCGGGCGGGGATGAGC
TAATGAGGAAGGAGAGCCAGTGGCAGATGGAGCAGGAGTTCTTCAAGGGCTACCTGAAAGGGGAGCACGGTCGCC
TTCTCAGTCTATGGCGGGAGGTTGTGACATTCCGACGCCACTTCTTGGAAATGAAGTCAGCTACTGACAGAGATC
TGATGGAGCTAAAAGCTGAGCATGTGAGGCTTTCAGGGTCTCTGTTGACCTGTTGTCTGCGCTTGACTGTGGGAG
CACAGTCTCGGGAACCCAACGGATCTGGAAGAATGGATGGGCGGGAGCCGGCCAGCTGCTGCTGCTACTAGCCA
AGACCCAGGAGCTGGAGAAGGAAGCCCATGAAAGGAGCCAGGAGTTAATACAGCTGAAGAGTCAAGGGGATCTGG
AGAAGGCTGAACCTCAGGACCGGGTGACCGAGCTCTCTGCTCTGTTGACCCAGTCTCAGAAGCAAAATGAAGATT
ATGAAAAGATGATAAAGGCTCTGAGAGAGACAGTGGAGATCCTGGAGACAAATCACACAGAATTAATGGAACATG
AAGCATCTCTTAGTAGGAATGCGCAAGAGGAGAAGTTGTCTTTACAGCAGGTGATCAAGGATATAACCCAGGTCA
TGGTGGAGAAGGGGACAATATAGCCCAAGGCTCTGGTCATGAGAATCTTTGGAATTGGACTCTAGTATCTTCT
CCCAGTTTGATTACCAGGATGCAGACAAGGCTCTTACTCTGGTGCCTTCAGTCTGACTCGGAGACGCCAGGCTG
TGCAGGACCTAAGGCAGCAGCTTGCAGGCTGTCAAGAGGCTGTGAACCTGTTGCAACAGCAGCATGATCAGTGGG
AGGAAGAGGGCAAAGCCTTGAGACAGCGGCTGCAGAAGCTCACTGGGGAGCGGGACACTCTGGCAGGGCAGACTG
TGGACCTCCAGGGAGAGGTGGACTCTCTCAGCAAGGAGCGAGAGCTGCTGCAGAAGGCCAGGGAAGAGCTGCGGC
AGCAGCTGGAGGTGCTAGAGCAGGAGGCATGGCGCCTGCGAAGGGTAAATGTGGAGCTTCACTGCAGGGGGACT
CTGCCCAGGGCCAGAAGGAGGAACAGCAGGAGGAGCTGCACCTGGCTGTCCGGGAGAGGGAGCGTCTTCAGGAGA
TGCTGATGGGCCTGGAAGCCAAACAGTCAGAATCACTCAGTGAATGATCACTCTTCGGGAAGCCCTGGAGTCAA
GTCACCTGGAAGGGGAGTTACTGAGGCAAGAGCAAACGGAAGTGACCGCAGCGCTGGCTAGGGCAGAGCAGTCAA
TTGCAGAGCTGTGAGTTCTGAAAACACCCTGAAGACAGAAGTAGCTGATCTTCGGGCTGCAGCTGTCAAGCTCA
GTGCCTTAAATGAGGCTTTGGCGTTAGATAAAGTTGGGCTGAACCAGCAGCTTCTCCAGTTAGAGGAGGAGAACC
AGTCTGTGTGCAGCAGAATGGAGGCCGAGAGCAGGAGAAATGCTTTGCAGGTGACCTGGCGGAGGCAGAGA
AGAGGAGGGAAGCCCTGTGGGAAAAGAACTACCTGAGGCTCAGCTGCAGAAAGCTGAGGAGGCTGGGGCTG
AGCTGCAGGCAGATCTCAGGGACATCCAAGAAGAGAAGGAAGAAATTCAAAAGAACTAAGTGAGTCACGTCACC
AGCAGGAGGCAGCCACGACTCAGCTGGAGCAGCTACATCAGGAGGCAAAGCGACAGGAAGAAGTGCTTGCCAGGG
CAGTCCAGGAGAAGGAGGCCCTAGTACGAGAGAAAGCGGCTCTAGAGGTGCGGCTGCAGGCCGTGGAGCGTGACC
GGCAGGACCTCGCTGAACAACCTACAGGGGCTCAGCTCAGCCAAGGAGCTACTGGAGAGCAGTCTGTTTGAAGCCC
AACAACAAAATTCTGTGATAGAGGTACCAAGGGGCAGCTGGAGGTCCAGATTCAAACCTGTCACTCAAGCCAAGG
AAGTAATCCAAGGGGAAGTGAGGTGCCTGAAGCTGGAAGTGGACACTGAACGGAGTCAGGCAGAGCAGGAGCGGG
ATGCTGCAGCCAGACAGCTGGCCCAGGCTGAGCAAGAAGGGAAGACTGCCTTGGAGCAGCAGAAGGCAGCCCATG
AGAAAGAGGTGAACCAGCTCCGGGAGAAATGGGAGAAGGAGCGCTCCTGGCACCAGCAGGAGCTGGCAAAGGCTC
TGAGAGCTTAGAAAGGGAAAAAATGGAGCTGGAATGAGGCTAAAGGAGCAGCAGACAGAAATGGAGGCCATCC
AGGCCCAGAGGGAAGAAGAACGGACCCAGGCAGAGAGTGCCCTATGCCAGATGCAGCTGGAAACAGAGAAGGAGA
GAGTATCCCTCCTGGAGACACTGCTGCAGACGCAGAAGGAGCTAGCAGATGCCAGCCAACAACTGGAACGACTGA
GGCAGGACATGAAAGTCCAGAAATTAAAGGAGCAGGAGACCACTGGGATACTACAGACCCAGCTCCAGGAGGCTC

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FIGURE 5744B

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCAGGATGACTCCAGAG
GGCTGGTGGAGCAGGAGGTTTCAGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTCAGAAGGAGCTGGAGA
GAGAGAAAGCCAGCCTGACTCTGTCACTGATGGAAAAGGAACAGAGACTCCTTGTTTTACAAGAAGCTGACTCTA
TTTCACAACAAGAGCTGAGTGCCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAGAGCTCAGTGCTC
AGATGGAATTACTAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGCCAGGAAGCACAGCTGCTGGAGG
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTTGGGCCAGGAAGCCAAGGCAGCCCAAC
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCGCTGGCCGCAGAGCAGCAGCCCGGAACCAGGCC
AGGCCAGGCCAGCTGGCCAGCCTCTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGTGAGAGCAGGCCTG
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT
TTAAGAGAGGGGCCCTGCTGACTGCTCTCTCCGTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAACTGATACTG
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAGGATCTGCAGAGACAGCTCTCCAGAATCAGGAAGAGAAAT
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAACATACATGAAACTATGGCATCCTTACAGA
GTCGCTGCGGAGAGCAGAGCTACAGCGAATGGAAGCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA
ACCTGACAGCCAGGTGGAACACCTGCAAGCAGCTGTCTGTAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC
TGGAAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG
CCCAGGCTCTGCAAGAGCAGGGCGAAGTGAAGGTGGCCCAAGGGAAGGCTCTGCAAGAGAATTTGGCCCTCCTGA
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTGCGGGGACAAATCCAGGAAGTGGAGAAGCAACGGG
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG
AACAGATTGAGGAGCTAGAGAAGTGTAGGTCTGTTTTAGAGCATCTGCCATGGCCGTCCAGGAGCGAGAGCAGA
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGTCTTGGAGCATC
AGCTTCTAGAACTTGAGAAGAAAGACCAATGATTGAGTCCAGAGAGGACAGGTTTCAGGACCTGAAAAAGCAGT
TGGTTACTCTGGAATGCCTGGCCCTGGAAGTGGAGGAAAACCATCACAAGATGGAGTGCCAGCAAAACTGATCA
AGGAGCTGGAGGGCCAGAGGGAAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC
AGGAGCTGCAGGCACAAAGCAGCCAGATCCATGACCTGGAGAGCCACAGCACCCTTCTGGCAAGAGAGCTGCAGG
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGCAGAAGGAGAGGATTGAGTTCTCGAGGATCAGAGGACCCGGC
AGACCAAGATCCTGGAGGAGGACCTGGAACAGATCAAGCTGTCTTGGAGAGCGAGGCCGGGAGCTGACCACTC
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGGAGCCTAGAGCACA
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTGAGCAGGAGCATATCCATGAACTCCAGGAGCTCA
AAGACCAGCTGGAGCAGCAGCTCCAGGGCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCCTGTCCAGCGAG
AGCAGGAAATAGTGGTCTGTCAGCAGCAACTGCAGGAAGCCAGGGAACAAGGGGAGCTGAAGGAGCAGTCACTTC
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCAGAGGGACCAGGAAGTGGAGGCTCTGCAGCAAGAACAGC
AGCAGGCCAGGGACAGGAGGAGAGGTTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCCATA
TGACACTGAAGGAGCGTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAAG
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA
GCTGGCTGCAGGCCAGGCAGTGTCAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCACTCCT
CCCGGCATCAGGAGGAGGCTGCCCGGGCCCGGGCTGAGGCTCTGCAGGAGGCCCTTGGCAAGGCTCATGCTGCC
TGCAGGGGAAAGAGCAGCATCTCCTCGAGCAGGCAGAATTGAGCCGAGTCTGGAGGCCAGCACTGCAACCTGC
AAGCCTCCCTGGATGCTTGCAGGCACACAGTCCGCGAGCTGGAGGAGGCTCTGAGGATAACAAGAAGGTGAGATCC
AGGACCAGGATCTCCGATACCAGGAGGATGTGTCAGCAGCTGCAGCAGGCACCTTGCCAGAGGGATGAAGAGCTGA
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCAGAGGGTCCAAGAGAATATGATCCAAGAGA
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCCCTTCATCAGAGTGTAAAGGAGCTACAGCTGA
CTTAGCCCAAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC
ACAGCCACAAAACCTCCCAATGGAGGAACAATCTCTAAACTTGATTCTTTAGAGCCAGGCTGCAGCGGGAGC
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGAGATTGAGTGGAGGGAGAAGGCCAGGACTTGG

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FIGURE 5744C

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTCTCAGCAGTCTGCAGGAGGTAGCCATGTTCCCTACAAGCCTCTGTCC
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC
TACACAGCCCAGGTGCAACCAGCACAGCAGAACTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC
AAGCAGTGGCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGCGGCCAGGCAGGGTCCCTAGAGATCAGCA
AGGCCACGGCTTCTTACCCACACAGCAGGATGGGAGAGGACAGAAGAACTCAGATGCCAAGTGTGTGGCTGAAC
TGCAGAAAGAGGTGGTCCTGCTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT
CAGCACAGACCAGCCGTGAGCTAGCAGGCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCCAGGCCC
CTGAGGCCACTGTCTGGAGGCAGAGACCCGCAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC
CAGTCCTGCTACACCCCAGCCCCAGCACTACCCAAGCCGCCTCCAGGTAGCAGCCACAGCCAGGAGCACACAGAC
AGAAGACTGTGTTCATGGGTTCATGGCCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG
CACCCAGGAGCCCCAGGTCGGCGGGTGTTCAGGAAGAGGAAGTAAATCTGCAACCCTGGGGAGGACCCCAACT
CACCTGGGAATGAGGCAAATTGCATTTGCTTGCTCCCTATGGAATCACCCAGAGGGGTGCCTTGCCCTGGCTGAG
GGACATGTACTGCCTCTCATCTAGAATTTATTTTCCTAGCACTTCACCACCTCCTTCATCTTCTCCTTCAACAAT
AAACCCTGAGATCTTTGCATTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5745

CTGGCGTCCCCTTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTTCGATGCCTACCCCAAGACT
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGCGCCACCGTGACCATTGTCAGTGGCCTTCTCATGTGCTACTG
TTCCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG
GCCGGAGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGTTGACCCTGACTCCCTGGACCCTGATCGC
TGTGAGAGCTGCTATGGTGCTGAGGCAGAAGATATCAAGTGCTGTAACACCTGTGAAGATGTGCGGGAGGCATAT
CGCCGTAGAGGCTGGGCCTTCAAGAACCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGAAGTCAATAAGGTGGCCGGAAACTTCCACTTT
GCCCCTGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGAGAGCTTTGGCCTTGACAACATCAAC
ATGACCCACTACATCCAGCACCTGTCATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT
GTCAGTGCGCCCAAGCCTCCATGATGTTCCAGTACTTTGTGAAGGTGGTGCCCACTGTGTACATGAAGGTGGAC
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAATGGGCTGTTGGGCGACCAA
GGCCTTCCCGGAGTCTTCGTCCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTC
ACCCACTTCCTGACAGGTGTGTGCGCCATCATTGGGGGCATGTTACAGTGGCTGGACTCATCGATTTCGCTCATC
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGAAGACAACGTAGTCACCCCTCGGTGCTTCCTCTG
TCTCCTCTTTCTCCCTGGCCTGTGGTTGTCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTGAGCCCCAGCCCC
AGGTTGATAAATCTATTGATTGATTGTGATAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5746

MEALGKLKQFDAYPKTLEDFRVKTCGGATVTIVSGLLMLLFLSELQYYLTTEVHPELYVDKSRGDKLKINIDVL
FPHMPCAYLSIDAMDVAGEQQLDVEHNLFKQRLDKGIPVSSEAERHELKGVEVTVFDPDSLDPDRCESCYGAEA
EDIKCCNTCEDVREAYRRRGWAFKNPDTIEQCRREGFSQKMQEQKNEGCQVYGFLEVNVKVGNFHFAPGKSFQQS
HVHVHDLQSFGLDNINMTHYIQHLSFGEDYPGIVNPLDHTNVTAPQASMMFQYFVKVPTVYMKVDGEVLRNQF
SVTRHEKVANGLLGDQGLPGVFVLYELSPMMVKLTEKHRSFTHFLTGVCAIIGGMFTVAGLIDSLIYHSARAIQK
KIDLGKTT

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FIGURE 5747

ACCAGGCAAATATTCCATTACAGCATTACAAAGATGGATGTTCTTCAGTTCCTAGAAGGAATCCCAGTGGATGAAA
ATGCTGTACATGTTCTTGTTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTCAGTTTAAAAATGAAGATG
ATGCACATGGGCCCCACTGCGTGACCTTGGTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGGC
TCCAAGTCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAA
CGGGTGCGGAACTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAG
CTACGCTTTTGGAACTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCTAGGGGGTGCTGAG
TGTTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGG
CGGGGGACCATCACGGTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAAC
CTAGATAAGAAGGACTTCCTGGGAAAATCAGATCCATTTCTGGAGTTCTTCCGCCAGGGTGATGGGAAATGGCAC
CTGGTGTACAGATCTGAGGTCATCAAGAACAACCTGAACCCTACATGGAAGCGTTTCTCAGTCCCCGTTACGAT
TTCTGTGGTGGGAACCCACAGCACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTCACATGATCTC
ATCGGTACCTTCCACACCAGCTTGGCCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAG
CAGCAGAAAAAGAAAAGCTACAAGAACTCTGGAACCTATCCGTGTCAAGATTTGTCGGGTAGAAACAGAGTACTCC
TTTCTGGACTATGTGATGGGAGGCTGTCAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGAC
CCCTCCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTG
GGCAGCGTGGTTTCAAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTTGGGGCCAGGTTCCCCCTGAC
TGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCATCCAGGGCATTGTG
GATGCCTACCGCCAAGCCCTGCCCCAAGTTGCGCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTG
GCCAGGTTTGCAGCCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTGACTGATGGT
GCTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTCGAACCTGCCCATGTCAGTGATCATTGTG
GGTGTGGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACAGTTCTGGG
CAGGCTGCTGCCCCGCGACATTGTGCAGTTTGTACCCTACCGCCGGTTCCAGAATGCCCCCTCGGGAGGCATTGGCA
CAGACCGTGTGCGCAGAAGTGCCACACAACCTGGTCTCATACTTCAGGGCCCAGGGTTGGGCCCCGCTCAAGCCA
CTTCCACCCTCAGCCAAGGATCCTGCACAGGCCCCCAGGCCTAGGTTCCCTTGGAGGCTGTGGCAAGTCCTCAA
TCCTGTGTCCCAGAGGTCCCTXTGGGCCACAACCCAACCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTT
TTGATACTTTTATACTTGTCTTCTGCTTTTGTGCTGCTCTTGATCCCACCTTTGCTCCTGACAACCCTCATTCAATAA
AGACCAGTGAAGACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5748

MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGSAELGRTERVRNCSSPEFSKTLQLEYRFETVQKLR
FGIYDIDNKTPELRDDDFLGGAECSLGQIVSSQVLTLPMLKPGKPAGRGTTITVSAQELKDNRVVTMEVEARNLD
KKDFLGKSDPFLEFFRQGDGKWHLVYRSEVIKNNLNPTWKRFVVPVQHFCGGNPSTPIQVQCSDYDSGSHDLIG
TFHTSLAQLQAVPAEFECIHPEKQQKKKSYKNSGTIRVKICRVETEYSFLDYVMGGCQINFVGVDFGTGSNGDPS
SPDSLHYLSPTGVNEYLMALWSVGSVVQDYDSDKLFPAFGFGAQVPPDWQVSHEFALNFNPSNPYCAGIQGIVDA
YRQALPQVRLYGPTNFAPIINHVARFAAQAAHQGTASQYFMLLLLTGAVTDVEATREAVVRASNLPMSVIVGV
GGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVPYRRFQNAPREALAQTVLAEVPTQLVSYFRAQGWAPLKPLP
PSAKDPAQAPQA

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FIGURE 5749

GACGCGGGGCCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCTGAG
CCCTTGGGGCCACTTCCCAGCCTACCGCTTCCGTCCCCGCCCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC
CTATCCCCCGCAGATGCCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAAT
GGGCTTCGTGATGGGTTGCGCCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTTGGCACATTTCAT
GGCCATTGGGATGGGCATCCGATGCTAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT
GTACTAATAAAAAGAAAGTCTTTGAGT

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FIGURE 5750

GGACGCAGAGAAGCCAGAGACTTTTCGCTTCCGGCTGCCGCAGGCGCTTCGCTGGTGCAGGTAAGCTCCGCACACT
CTCGGCCGGTCCCGAGTCCGACTCCCTCAAGGGTGACGCGAGCTCTGCCCTTTAACCGGAAACGTCTCCCTGCTC
ACCCACCCCCGCGCAGACGCAGTGCTGAGCACACAGCTACCGGACAAAGAGTGACGCCCGGAGCTGGAGTTATG

GCGGCTACGGAGCCGATCTTGCGGGCCACTGGGAGTCCCGCGGCGGTGCCACCGGAGAACTGGAAGGAGCCGGT
TCGAGCTCAGCCCCTGAGCGTAACTGTGTGGGCTCCTCGCTGCCAGAGGCCTCACCGCCTGCCCCTGAGCCTTCC
AGTCCCAACGCCGCGGTCCCTGAAGCCATCCCTACGCCCCGAGCTGCGGCCTCCGCGGGCCCTGGAGCTGCCTCTC
GGGCGCGACCCGTGAGCGTAGCGCCTCAGGCCGAAGCTGAAGCGCGCTCCACACCAGGCCCCGCGGCTCTAGA
CTCGGTCCCGAGACGTTCCGCCAGCGTTTCCGGCAGTTCCGCTACCAGGATGCGGCGGGTCCCCGGGAGGCTTTC
CGGCAGCTGCGGGAGCTGTCCCGCCAGTGGCTGCGGCCTGACATCCGCACCAAGGAGCAGATCGTGGAGATGCTG
GTGCAAGAGCAGCTGCTCGCCATCCTGCCCGAGGCGGCTCGGGCCCCGCGGATCCGCCCGCGCACGGATGTGCGC
ATCACTGGCTTCAGCGGTGGAGCTGCGGGCGGCCAGGGCCGGGCGCTCTGTGCGGACTGGGGCCATGATCGGGCCC
GGGGGCTGAGCCTGGGACCCACCCCGTGTTAATGAAAAATGAGTTTGGCAGCGCCAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 5751

MAATEPILAAATGSPAAPPEKLEGAGSSSAPERNCVGSSLPEASPPAPEPSSPNAAVPEAIPTPRAAASAALELP
LGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQRFQFRYQDAAGPREAFRQLRELSRQWLRPDIRTKEQIVEM
LVQEQLLAILPEAARARRIRRRTDVRITG

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FIGURE 5752

CTTTTTCCTTTCCTGATTCTTGTGTATGTGTGGCTGGGCCGCCCCCTCTTCTCGGCTCAGAGTCACGGAGTGCCT
TGAAC TAGGCCACCTCGCCGGGGCGGCTGGTTCTCTGTTTGTGGGACGCTGGTGTCTCTGGAGGCCCTTCCTGA
GAAGCCGTCGCCAGAGTTACGTCGCGGTTTTCTTAACTTTAGAGCCTGGGGGCCGAGACCCTGATTGCACTCGA
CCTGGCTCTGCCCTACTCTCTGCGTGACTTCCACTGTTTCATCAAAGAAAAAGGGTTCTTTTGGTCACCCACCACT
GGCCCCATGGCTGCCGTGCAGATGGATCCTGAGCTAGCCAAGCGCCTCTTCTTTGAAGGGGCCACTGTGGTCATC
CTGAACATGCCCAAGGGAACAGAGTTTGGGATTGACTATAACTCCTGGGAGGTCGGGGCCCAAGTTCCGGGGCGTG
AAGATGATCCCTCCAGGCATCCACTTCTCCACTACAGCTCTGTGGACAAGGCTAATCCGAAGGAAGTAGGCCCT
CGTATGGGTTTTCTTCTTAGCCTGCACCAGCGGGGCTGACAGTGCTGCGCTGGAGCACACTCAGGGAAGAGGTA
GACCTGTCCCCAGCCCCAGAGTCTGAGGTGGAGGCCATGAGGGCCAACCTCCAGGAGCTGGACCAGTTCTTGGGG
CCTTACCCATATGCCACCCTGAAGAAGTGGATCTCACTACCAACTTCATCAGCGAAGCCACAGTGGAGAAGCTA
CAGCCCGAGAATCGACAGATCTGTGCCTTTTCCGATGTGCTACCTGTGCTCTCCATGAAGCACACCAAGGACCGC
GTGGGGCAGAATCTACCCCGCTGTGGCATTGAGTGCAAAAGCTACCAAGAGGGCCTGGCCCGGCTACCAGAGATG
AAGCCAGAGCCGGGACAGAGATCCGCTTCTCAGAGCTGCCACGCAGATGTTCCAGAGGGTGCCACGCCAGCT
GAGATAACCAAGCACAGCATGGACCTGAGCTATGCCCTGGAGACTGTGCTCAACAAGCAGTTCCCCAGCAGCCCC
CAGGATGTGCTTGGTGAACCTCCAGTTTGCTTTTGTGTGCTTCTGCTGGGGAATGTGTACGAGGCATTTGAGCAT
TGGAAGCGGCTCCTGAACCTCCTGTGCCGGTCAGAAGCAGCCATGATGAAGCACCACACCCTCTACATCAACCTC
ATCTCCATCCTGTACCACCAGCTTGGTGAGATCCCGCTGACTTCTTCGTAGACATTGTCTCCCAAGACAACCTC
CTCACCAGCACCTTACAGTTTTCTTTCTCTGCTGCAGCATTGCCGTGGATGCCACCCTGAGAAAAGAAAGCT
GAAAAGTTCCAAGCTCACCTGACCAAGAAGTTCCGGTGGGACTTTGCTGCGGAACCTGAGGACTGTGCCCCGGTG
GTGGTGGAGCTCCCTGAGGGCATCGAGATGGGCTAACTCGGGGAGCGCTCTCAGCTGCGAGGGGGCCCCCTTCCAC
AGGGCTGCAGTCTGGCCTCTCCATTACTTCTTCCATCCTGGGACCTGCCAGGGCAGCAATCTCTCCAGGTCC
TGCAAAGATGGAGCCAGAATTCCCTTTTTTCACTGATAAATATATTTCTTCATTGCCAAAGAGGCTGTACCCATCC
TGAAGGCACATTTGTGGGTTCCCCATCAGCCAGGCCTTGGTGCTAACCTGGCTGAATTCACACAGGCTCTTACA
CACACACGCTCCTAGGAGACATCTGCCTACACGGCAACCATATTTCTCTGAATGAGAAGGAATTGAACCAAAG
TCCAAGAAAGAACTGATTGCTTGTTCATAGGAGCTTAGGAAACAAGAAACCCTGGATTGCCAGGGGGTCTGAG
AAGTTGGTTGGTGACTTTTTTTGCGGTTAAATGAAGGGTGATGGGGAGATCAGCCCGAATTGCCGCTGCCCTCTT
GCTAAATAGGAGCAGAGGACTTGGCCTGCAGCTCCTTGGGAGCCCTTGATTGGGAAGAGAGTTTCAAGGGAGGCA
GCTGGATTCAATCTAGCAGGTGGTCAGCTTTCAGCTTCTCCATCGAAATCCCATTCTCCTGTCCAGAGGCCAGT
GGGTATCTCCCAAGGTGGGTGTGGACCCTGGCCTCAGAGGCCTTGCTGGTGCTGTACCTCCCACCTGTTCCAT
TCCGAGGCCTCACCCAGAAGTGGGACCCTCCCCTTCTCACCAGAGCCACCGTGACTGTTTCTGATGACCTGGAG
AGTCAACAACAACCAGAAAGGTTTCTGCCAGAGCAGGCTTCTTAAGGCCTTTACGAAGTTTTGTGCCCTTCCAAG
TGCTGAAGAAGACCTGGTCAGCCTAAATCTTCCAGTCCCGCTGTGGAGCTGTACGTACCCGGAGTAATGAGCTC
CTGGTTCTCGGGAGTCCTTCGTGCTGTGTGGCAGGGTTCTCTCTAGACAAGTACACAGGCCCTGCCACCCTGA
CATCAAACCTGTTGTACTATGATCACAGTCCCTGTGCCATCCTTTTCCAAGACTGGGGCTCACACCATGTTTTTGA
ATGAGAATCCCTGCTGTTGAGACTTTTGCTTCCACTTGTTTCTTGGAGATGTTTTTCCAAGAGCATAATGTAC
ATTAAAGTCTTCGAGTTGAGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5753

MAAVQMDPELAKRLFFEGATVVILNMPKGTEFGIDYNSWEVGPVKFRGVKMIPPGIHFLHYSSVDKANPKEVGPRM
GFFLSLHQRLTVLRWSTLREEVDLSPAPESEVEAMRANLQELDQFLGPYPYATLKKWISLTNFI SEATVEKLQF
ENRQICAFSDVLPVLSMKHTKDRVGQNLPRCGIECKSYQEGLARLPENMKPRAGTEIRFSELPTQMFPEGATPAEI
TKHSMDLSYALETVLNKQFPSSPDVLGELQFAFVCFLNGVYEAFEHWKRLNLLCRSEAAMMKHHTLYINLIS
ILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSI AVDATLRKKAKEFQAHLTKKFRWDFAAEPEDCAPVVV
ELPEGIEMG

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FIGURE 5754

GGAAGCCCCACCCACCAGAAGCCAAGATGTCCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGC
GGGCCACATCCAATGTCTTCGCAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATGATTG
ACCAGAACCGTGATGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGGAAGAACCCACAG
ACGAATACCTGGAGGGCATGATGAGCGAGGCCCCGGGGCCCATCAACTTCACCATGTTTCCTACCATGTTTGGGG
AGAAGCTGAACGGCACGGACCCCGAGGATGTGATTGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTT
TCATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGA
TGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCG
CCAAGGATAAAGACGACTAGGCCACCCAGCCCCCTGACACCCAGCCCCCGCCAGTCACCCCTCCCCGCACACA
CCCGTCCATACCAGCTCCCTGCCCATGACCCTCGCTCAGGGATCCCCCTTTGAGGGGTTAGGGTCCCAGTTCCCA
GTGGAAGAAACAGGCCAGGAGAAGTGCCTGCCGAGCTGAGGCAGATGTTCCACAGTGACCCAGAGCCCTGGGC
TATAGTCTCTGACCCCTCCAAGGAAAGACCACCTTCTGGGGACATGGGCTGGAGGGCAGGACCTAGAGGCACCAA
GGGAAGGCCCCATTCCGGGGCTGTTCCCCGAGGAGGAAGGGAAGGGGCTCTGTGTGCCCCCAGGAGGAAGAGGC
CCTGAGTCCTGGGATCAGACACCCCTTCACGTGTATCCCCACACAAATGCAAGCTCACCAAGGTCCCCTCTCAGT
CCCCTTCCCTACACCCTGACCGGCCACTGCCGCACACCCACCCAGAGCACGCCACCCGCCATGGGAGTGTGCTCA
GGAGTCGCGGGCAGCGTGACATCTGTCCCAGAGGGGGCAGAATCTCCAATAGAGGACTGAGCACT

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FIGURE 5755

MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLEGMMS
EAPGPINFMTMFLTMFGEKLNQTDPELVIRNAFACFDEEASGFIHEDHLRELLTTMGDRFTDEEVDEMYREAPIDK
KGNFNYVEFTRILKHGAKDKDD

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FIGURE 5756

GCGGGGGGTGGGCGCAGCTCGTCGCGCTCCGCACAAAGTTTGTCTTCTCCCTCCGGGCGGGTGGGGGAGGGCGCA
GAGGGCGCGGGGGGAGGAGAGGGGATCTGACGTCAGGCCGCGAGGTGCTTTCCAGCCGCGAGCTGTCAGGCCGAG
TGTCAGGCCCGGGCAGGTTTACCCAAGGTCCAGCCTAGCCCCTAGGCACCATGTGCGACAGTGATCTAGGTGAGGA
CGAAGGCCTCCTCTCCCTGGCGGGCAAAGGAAGCGCAGGGGGAACCTGCCCAAGGAGTCGGTGAAGATCCTCCG
GGACTGGCTGTACTTGACCGCTACAACGCCTACCCCTCAGAGCAGGAGAAGCTGAGCCTTTCTGGACAGACCAA
CCTGTGAGTGCTGCAAAATATGTAAGTGGTTCATCAATGCCCGCGGGGGTAAAGGCCTCAGATGTGGCCCTCCCCGTGGCAG
TGGCAAAGACCCTAATCAGTTTACCATTTCCGCGCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCGTGGCAG
CAGCCCCCTCAGTGCTGGCTGTGTCTGTCCCAGCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCT
TCACTCAGGCCAGGGGAAAAGCCAGCAGCCCCCTTTCCACGTGGGGAGCTGGAGTCTCCCAAGCCCCGTGGTGAC
CCCTGGTAGCACACTTACTCTGCTGACCAGGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACAGCCACC
ACCCACACCCCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGC
TGCTGAGATGGAGCTTCAGAAAGCAGCAGGACCCATCACTCCCATTACTGCACACTCCCATCCCTTTAGTCTCTGA
AAATCCCCAGTAGGCATCTGCCAAGAAGGGTGCTGAAGGCTCCAGCCAGCTGTCTGGGTTTCCGTTTTGGTTCC
CTTTCATACAGAGGGTTTTCTATGGATCACTGCCAAACATTGGGATCATCTCCTCTGTCCAGAGGTCTTCAACAG
GAAGATGCCAGCTGGCACCCTGCACTGTGATGGGGGCCCTCTCCTCTGCTGACTCTGCCGTTTCTCCAGGCCTC
CGCTCAGTGATGAGACCAAGAGATCGGAGACAAGCATGGTGCTGCTGCTTCTGCTGCTTCTCCAGAAAATCCCTG
GGACACCTTTGTTCCAGCCTGGTTTCCCTGGGCTGGGCTCAGGAAAGCTGCCAAATTCAGTCTATGTTGGGTCCA
AGCTGCCCCCTGTGCTGTTTCTGTCAAGCCAGGTGTGGACATTCCAAGTTTCATATGCGTGAACAAAAGAAAAGAGG
AACCAGTGATGTAAACAGAACCGACTCCAGTTGAATGTTTAGATTTTTGCTAAACTGTTTTCTTTTTCCCTTTT
TTGCTGTGGTTTTGCATTACGGCAGTAGTTAGCCAGGTGTGGGGAACGAGAGTGCATGCATGATAGCGTTCTG
GTGAGCTGGGAAGGACCCACCCTGCCACTGAGGATTGTTTTGGAAGAAAGGAATATTTTTATCTTGGGGACCAG
CTAAGTCTCTGCACTAGTGTAATTTCCAAATGGTTGTTTTATCATTGGTTTGGTTTACCAAAAAAAGGCAGGG
AAAAAAAAAAAAAACAACCGTATGAGCGCATTGGCTTGTCTGCCGACGGCACAGAAGGGTAGAAAGCCACAGCAG
GGGGCAGTCCAGCAGACTCTGACTCACTTTCTAGGCACCTAGCAGAGAAAGATAAGATCAAAAGGTGTTTGGTT
TTTTTTTTTAATTTTTATTGTAGTTTTTTTTGGGTGGGTGGGGGAAGTAACTAGACTGAAGCGATGGATTTTTTTT
TTCTTTTTTTTTCTTTAGTGTTTTTCCCTTTGTTCTTGAACACTTTTGCCCTGCAGCCTCAGTTTTGAATTTCTTT
AGCAACTTGGATTAGAGGGGCCCATATGTCAGAAGCTCCCAGCACCTCCTACTTGGGAGAAAAGTGAGCCATCTG
CTGGTCAGGAAGTCTCCAGAGAGGCAGCTTTTCCACAATGGTGGCAGGAACTTTGGGGAAAGCAGGAATGGT
GTCCACTGCTGCCGAGGAAGTGCCTTCAGAGAAGGTGGGGCTGGAAAAGGGTTAGAAGCCTCCTAGCTGGGATTG
TCTTTGTTTACCTTTCTTTAAATTAGAATTACAGAAGCCCCCTGCCAGTGAACAGATAACGATTGGTCTTATGC
TCCTCCCTTTCCCCATTTTTCTTTTGCTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGAGACA
GAGTCATGCTCTGTACCCGGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGTAACCTCCGCCCTCCCGGGTTC
AAGCAATTATTTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGCACCCGCCACCATGTCTGGCTTTTAGTAGAG
ACGGGGTTTACCATCTTGGCCAGGCTGGTCTTGGAACTCCTGACCTCGTGAGCCACCACGCCAGCCTCTTTTG
CTGTTTCACTTGCTGACAGTGTTCAACAATATGCCCCATCTTATATATCCTAAGAAACACTAATCCTAGGTTATT
GCTAGCCAAAATATTTTTGTCTGAGTAGTGCTACTGGGCCAAAAGATAGATCAGGACGACAGCCTTTAGTTTTCT
CTGAAATCACCAGGTGAGGCACAAGGAGAAAAGGTTCTGGATACTGACTAAGTGGGTGGGTGGATCTAGCCAG
GAGAAAGACAGTAACATGTGTTCTGTACTTTCTGGGAAGATCCCTGAAGCCATCACAGAGGCTCCCCAACTTCTG
AGTCGCCCCTCTGTTGCTGTGGGAGTGTGAACGGATCGCTGAAGGAGAGGGAGCTTTGCTCTCTCTAGGTGGGCA
AGTTTCTGGGCTCTCTGTGTGCTTCCCTCTGGCTTCTTCTCCCGTGCCCTCTCCCGTGTGCCCCAGGGGGA
TCAGGGATCCTCACCTCCTGAGGCCAGTGGGGAAGAATGAACATGGCTTCATCCAGGTTAACTGATGCTGCCA
TTTGCCAGCCTCTTCCATCCAGCCCTGTGAGTGGCCAGGTCTGGTGCAACTGCTGCAGGATGCCTGTAGTA
GGGAAGTCTGGAAGTGTATTGGGCTGAGGTGGGATTTTCCCTCCCAAGTGCAGTGCAGTGCAGGAGGTGGTGA
GGGAGCCATGCTGCTGAATTTGTTGGCATTTCCTTATGTAATGGGGTGTGGGTAGGGCAGACTCTGC
TTGGGTTTGGTTGTAAGATAAACCTGGAGGAGAAGCACAGTTGTCCATTGAATTATTTGAGCAAAACTACTGT
AAATAACTTTTTTGTCTTTTGTCAAATAAAATTTTTTTTTTGTTTTTTTAAGCAG

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FIGURE 5757

AGAGTTTTCGGAGGCGGTGACCGTGACGTAGAAAGGTGGAGACCGCTTCACCCTGATCAGGGAGTATCGGCTGCGGG
TGCGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTGTTTCAGAGTTTACCACCTA
GGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAAGGACCAGTGATGTCTAAGACTCATGATCATCAAT
TGGAATCAAGTCTCAGTCCTGTGGAAGTGTTTGCTAAAACAATCTGCCAGTTATCAAGACAGGAGGCAATCCTGG
CGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCATTACCAGGGCATCACAGAGCTCAGC
CGGTCTATCAGTGTCGATTTAGCAGAAAGCAAACGGCTTGGCTGTCTCCTGCTTTCAGTTTCCAGTTCTCTATT
CAGAAACTTGAACCTTTCCTAAGGGACACTAAGGGCTTCAGTCTTGAAAGTTTTAGAGCCAAAGCATCTTCTCTT
TCTGAAGAATTGAAACATTTTGCAGACGGACTGGAACCTGATGGAACCTACAAAAATGTTTTGAAGATTCAAAT
GGAAAAGCATCAGATTTTTCTTTGGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTTTCTTTAGAA
CGTCAGACTTGGGATCAGCTCTTGCTTCACTACCAGCAGGAGGCTAAAGAGATATTGTCCAGAGGATCAACTGAG
GCCAAAATTACTGAGGTCAAAGTGGAACCTATGACATATCTTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAA
CCTGACTACCAGAAAAATTACAGAACCAGAGCAAAGTCTTTGACTGTATGGAGTTGGTGAATGGATGAAGTGAAG
GATCAGTGAAACAGCTGCAGGCCTTTATGGATGAAAGTACCCAGTGCTTCCAGAAGGTGTCAGTACAGCTCGGAA
AGAGAAGCATGCAACAATTAGATCCCTCACCAGCTCGAAAACTGTTGAAGCTTCAGCTACAGAACCCACCTGCCA
TACATGGATCTGGATCTGGATCTTGTTCAGTGACTTTATGAGAGTTTCTGCCACAAGGTGCCAAGAGGAGAGGAA
TGGGAAGAGTGCCCCAGCACGTGGTGACTGCGTGATTTCTGCTCGTTGCCTTTGAAGATAACTGGCAGGACTGAC
TGTAAGAACTTTGACTTTTTTCAAAAAGTGATGGAATTTGTACATCCAAATGAATATTGTATAGACAATTTTCC
CAGGAATGTGCAAAATGCTTGAAAGTTCAAACCTCTTTTTTGAATGATCTTCAGATCCAGTGGCCCCATTCTTTT
ATCTTTATCCTGTGAAGGTGTTTTTCAGGTTTTGAAACAATCCAAAAATCATTTAGGACCAAGTCTAAGGAAACA
TTTTAGTGGCCAAGTTGGATTCCGATTGTAAAGGAATGATACTAATTTTCTAGCATGGCTCTGAAGGTGATTTTA
GGTAGAAGAGTTTTGAGGCTGGGCGCAATGGCTCACGCCTGTAATCCTAGCATTTTGGGTGACTGAGGCGGGTGG
ATTGCTTGAGCCCAGAAGTTGAAGACCAGCCTGAGAAATAAGGTGAAACCCTGTCTACAAAAAATACAAAAAGTT
AGCTGGGTGTGGTGGCGTGTGCCTGTAGTGCTAGCTACTCAGAAGGCTGAGGTGGGAGGATTGTTTGAGCCCAGG
AGGTTGAGGCTGCAGTGAGTTCTAATTGCGCCACTGCACTCCAGCCTGAGCGACAGAGTGAGACACTGTCTTAAA
AAAAATTAAAAATTGT

6234/6881
FIGURE 5758

MIINWNQVSVLWKCLLKQSASYQDRRQSWRRASMKETNRRKSLHPIHQGITELSRISISVDLAESKRLGCLLLSSF
QFSIQKLEPFLRDTKGFSLESFRAKASSLSEELKHFADGLETDGTLQKCFEDSNGKASDFSLEASVAEMKEYITK
FSLERQTDWQLLLHYQQEAKEILSRGSTEAKITEVKVEPMTYLGSSQNEVLNTKPDYQKNYRTRAKSLTVWSW

6235/6881
FIGURE 5759

AGCGTTGCGAGACGGTCGGTTCCAAGTGGGCCTGGGCGCGGGGAGAGGCGGGTCTGTCCTCGGGAACCTGCAAGG
CCCTGTGAGCGGGAGGACTGGGATCCCGGCCGCGGCTGCTGGAAGCGTCGAAGCTCAGCGGGGCCGCGGACACTG
ACCTGTGCTTAGAACTCATCCTGGCCCGCAGAGCCTGCCGCGAGTCCCTGGCGTCCCCTGTGGCGGGCTCTTGGA
GCCACTTTCCCGAGCGGAAGTCAGCCCGCGGCTCGGACTCCGGCGGGACCTGCTCGGAGGAATGGCGCCGCGGG
TTCAAGCACTGTCTTCCTGTTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGACGCCACTCACTACCTCAC
CAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTCACAAATTTGGAATCTGCCTTCTACTCCAT
CGTGGGACTCAGCAGCCTTGGTGCTCAGGTGCCAGATGCAAAGAAAGCATGTACCTACATCAGATCTAACCTTGA
TCCCAGCAATGTGGATTCCCTCTTCTACGCTGCCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTT
AAATGAGACCAAAGATCTGCTTCTGGCAGCTGTGAGTGGAGTCTATCTGTTACCCAGATCTACCATGCAGTTGC
AGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGA
GGAGACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCCACCTGTCCCAGCAGGCTGACCTGAGGAGCAT
CGTGGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAACTCGGGGGCGTGTATCTCCAGTTTGAAGAAGGACT
GGAAACAACAGCGTTATTTGIGGCTGCCACCTACAAGCTCATGGATCATGTGGGGACTGAGCCATCCATTAAGGA
GGATCAGGTCATCCAGCTGATGAACGCGATCTTCAGCAAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTCAGCGT
GGCCTCTGCAGCTGCTGTGCTCTCGCATAATCGCTACCACGTGCCAGTTGTGGTTGTGCTGAGGGCTCTGCTTC
CGACACTCATGAACAGGCTATCTTGGGTTGCAAGTCACCAATGTTCTGTCTCAGCCTCTGACTCAGGCCACTGT
TAAACTAGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTCACCCCTGTAGGGGA
TGTTTTTGAACATAAATTTATGAACGTCAAATTTTCCAGTGGTTATTATGACTTCCTTGTGCAAGTTGAAGGTGA
CAACCGGTATATTGCAAATACCGTAGAGCTCAGAGTCAAGATCTCCACTGAAGTTGGCATCACAAATGTTGATCT
TTCCACCGTGGATAAGGATCAGAGCATTGCACCCAAACTACCCGGGTGACATACCCAGCCAAAGCCAAGGGCAC
ATTTCATCGCAGACAGCCACCAGAACTTCGCCTTGTTCTTCCAGCTGGTAGATGTGAACACTGGTGTGTAACCTCAC
TCCTCACCAGACATTTGTCCGACTCCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCCGAGCCAGACAA
CAAGAACGTGTACAAGTTTGAACCTGGATACCTCTGAAAGAAAGATTGAATTTGACTCTGCCTCTGGCACCTACAC
TCTCTACTTAATCATTTGGAGATGCCACTTTGAAGAACCCAATCCTCTGGAATGTGGCTGATGTGGTCAATCAAGTT
CCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCCAGAACCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTT
CCGCGAGCCTGAGAAGAGGCCCCCACCCTGGTGTCCAATACATTCACTGCCCTGATCCTCTCGCCGTTGCTTCT
GCTCTTCGCTCTGTGGATCCGGATTGGTGCCAATGTCTCCAACCTCACTTTTGCTCCTAGCACGATTATATTTCA
CCTGGGACATGCAGCTATGCTGGGACTCATGTATGTCTACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTA
CCTGGCCATCCTGGGCAGTGTGACGTTTCTGGCTGGCAATCGGATGCTGGCCAGCAGGCAGTCAAGAGAACAGC
ACATTAGTTCCAGAAGAAAGATGGAATTTCTGAAAACCTGAATGTCAAGAAAAGGAGTCAAGAACAATTCACAGTA
TGAGAAGAAAAATGGAACAAAAAACTTTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACCTTTTGCTTGT
TTTTCAGTTTCCCCAACACACAGCAGATACCTGGTGAGCTCAGATAGTCTCTTCTCTGACACTGTGTAAGAAGC
TGTGAATATTCTAACTTACCCAGATGTTGCTTTTGAAGGTTGAAATGTGTAATTGTTTTGGAATAAAGAGGGT
ACAATAGG

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FIGURE 5761

MYCLQWLLPVLLIPKPLNPALWFSSHSMFMGFYLLSFLLERKPCTICALVFLLAALFLICYSCWGNCFLYHCSDSPL
PESAHDPGVVGT

6238/6881
FIGURE 5762

TAGGTGGCGGGCGGGTACTTAAGGCGCGGCCACCGCGGCTGCGGCAGTGCGCCCAACAGCGGACTCCGAGACCAG
CGGATCTCGGCAAACCCCTCTTTCTCGACCACCCACCTACCATTCTTGGAACCATGGCGGCAGTGGCGGCGGCCTC
GGCTGAACTGCTCATCATCGGCTGGTACATCTTCCGCGTGCTGCTGCAGGTGTTCTTGGAATGCTGCATTTACTG
GGTAGGATTTCGCTTTTCGAAATCCTCCAGGGACACAGCCCATTGCGAGAAGTGAGGTGTTTACGGTACTCCCTGCA
GAAGCTGGCATAACCGGTGTCGCGGACCGGGCGGCAGGTGTTGGGGGAGCGCAGGCAGCGAGCCCCCACTGAGG
CCCCAGCTCCCAGCCCTGGGCGGCCGTATCATCAGGTGCTCCTGTGCATCTCGGCCAGCACGGGAGCCAGTGCCG
CGCAGGAATGTGGGGTCCCTGTGTTCCCTCGCCAGAGGAGCACTTGGAAGGTGAGTGAGGGGCCAGTAGACCC
CCGGAGAAGCAGTACCGACAATGACGAAGATACCAGATCCCTTCCCAACCCCTTTGCACCGGTCCCCTAAGGGG
CAGGGTCGAGAGAGGAGGGGGGATAGGGGGAGCAGACCCCTGAGATCTGGGCATAGGCACCGCATTCTGATCTGG
ACAAAGTCGGGACAGCACCATCCCAGCCCCGAAGCCAGGGCCATGCCAGCAGGCCCCACCATGGAAATCAAAACA
CCGCACCAGCCAGCAGAATGGACATTCTGACATCGCCAGCCGACGCCCTGAATCTTGGTGCAGCACCACCGCGT
GCCTGTGTGGCGGGACTGGAGGGCACAGTTGAGGAAGGAGGGTGGTTAAGAAATACAGTGGGGCCCTCTCGCTGT
CCCTTGCCAGGGCACTTGCAATCCAGCCTCGCTGCATTTGCTCTCTCGATTCCCCCTTCCCTCCTCACTGCCTCC
CAAGCCCACCCTACTCCAAAATAATGTGTCACTTGATTTGGAATATTCAAGCAGTAAAAAGTAAATGAATCCCAC
CTTTACTAAACACTTTCTCTGAACCCCCCTTGCCCTCACTGATCTTGCTTTTCCCTGGTCTCATGCAGTTGTG
GTCAATATTGTGGTAATCGCTAATTGTACTGATTGTTAAGTGTGCATTAGTTGTGTCTCCCCAGCTAGATTGTA
AGCTCCTGGAGGACAGGGACCACCTCTACAAAAAATAAAAAAAGTACCTCCCCTGTCTCGCACAGTGTCCAGGA
CCCTGCGGTGCAGTAGAGGCGCACC

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FIGURE 5763

GGGGAXGGGGGGCAGTGTGGCTGGAGCCGCGGCTGACGGGCCCCGCGGTCTGGGCGTGAGTGCAGGGAAGTGGAGT
ATTTGCTGGGCCGGGTACCATGACGTGGGCGAACTTCTGAGCTACCAGCCCAATAGGGGCACAAAACGTCCCCG
GGATGATGAAGAGGAGGAGCAGAAGATGCGTCGGAAACAACTGGTACTCGAGAACGCGGCCGCTATCGGGAAGA
AGAAATGACTGTGGTGGAGGAAGCGGATGATGACAAAAAAGGCTGCTGCAGATTATTGACAGAGATGGGGAAGA
GGAAGAGGAAGAGGAGGAGCCATTGGATGAAAGCTCAGTGAAGAAAATGATCCTCACATTTGAAAAGAGATCATA
TAAAAACCAAGAATTGCGGATTAAGTTTCCAGACAATCCAGAGAAGTTCATGGAATCCGAGCTGGACCTAAATGA
CATCATTGAGGAGATGCACGTGGTGGCCACCATGCCAGACCTGTACCACCTTCTGGTGGAGCTGAATGCTGTACA
GTCGCTTCTCGGCTTGCTCGGACACGATAATACAGATGTGTCCATAGCTGTGGTCGATTTGCTTCAGGAATTAAC
AGATATAGACACCCCTCCATGAGAGTGAAGAGGGAGCAGAAGTGCTCATCGATGCTCTGGTGGATGGGCAGGTGGT
AGCACTGCTGGTACAGAATCTGGAGCGCCTGGATGAGTCTGTGAAAGAGGAGGCAGATGGCGTCCACAACACTCT
GGCTATTGTGGAAAACATGGCTGAGTTCCGGCCTGAGATGTGTACAGAGGGTGCCAGCAGGGTCTTCTACAGTG
GCTGTTGAAGAGGGCTGAAGGCAAAGATGCCTTTTGATGCCAACAACTGTATTGCAGTGAAGTGCTGGCCATATT
GCTCCAGGACAATGATGAAAACAGGGAATTGCTTGGGGAGCTGGATGGAATCGATGTGCTTCTTCAGCAGTTATC
CGTGTTTAAAGACACAATCCCAGCACGGCTGAGGAGCAGGAGATGATGGAGAATCTGTTTGATTCCCTCTGCTC
CTGTCTAATGCTTAGTTCCAATCGTGAGCGCTTCCTGAAGGGCGAGGGTCTTCAGCTGATGAATCTCATGCTCAG
GGAAAAGAAGATCTCCCGGAGCAGTGCCCTGAAAGTGCTGGACCATGCCATGATTGGCCCCGAAGGCACAGACAA
CTGCCATAAGTTTGTGACATTCTTGGCTTACGAACCATCTTTCCCCTCTTTATGAAATCTCCAGGAAGATCAA
GAAAGTGGGAACCACTGAGAAGGAACATGAAGAGCATGTCTGTTTCGATCCTGGCTTCCCTCCTGCGGAACCTGAG
AGGGCAGCAGCGGACCCGGCTTCTGAATAAATTCAGTGAAGATGACAGTGAGAAGGTTGACAGACTAATGGAGTT
GCATTTTAAATATCTGGGTGCAATGCAGGTGGCGGACAAGAAGATTGAAGGGGAAAAACACGACATGGTCCGGCG
AGGAGAGATCATCGACAATGACACCGAGGAGGAGTTCTACCTCCGGCGCCTGGATGCGGGGCTCTTTGTTCTCCA
GCACATCTGCTACATCATGGCCGAGATCTGCAATGCCAATGTCCCCAGATTGCGCCAGAGGGTTCACCAGATCCT
AAACATGCGAGGAAGCTCCATCAAAATTGTGAGGCATATCATCAAGGAGTATGCAGAGAACATCGGGGACGGCCG
GAGCCCGGAGTTCCGGGAGAACGAGCAAAAGCGCATCTGGGCTTGCTGGAGAACTTCTAGAGGCACCTTGCCCC
TGCGCATCATGGACTCTCTCAGCTTCCCTCCCAGGATCAGTTTCTACACAACCTCTGTGTGGCTTTTGGACAAATT
AAAGCTAGTTTTGGTAAAAAAAAA

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FIGURE 5764

MDVGELLSYQPNRGTKRPRDDEEEEQKMRRKQTGTRERGRYREEEMTVVEEADDDKKRLLQIIDRDGEEEEEEEE
PLDESSVKKMILTFEKRSYKNQELRIKFPDNPEKFMESELDLNDIIQEMHV VATMPDLYHLLVELNAVQSLLGLL
GHDNTDVSIAVVDLLQELTDIDTLHESEEGA EVLIDALVDGQV VALLVQNLERLDES VKEEADGVHNTLAIVENM
AEFRPEMCTEGAQQGLLQWLLKRLKAKMPFDANKLYCSEVLAILLQDN DENRELLGELDGIDVLLQQLSVFKRHN
PSTAE EQEMMENLFD SLCSCLMLSSNRERFLKG EGLQLMNLMLREKKISRSSALKVLDHAMIGPEGTDNCHKFVD
ILGLRTIFPLFMKSPRIKKVGTTEKEHEEHVCSILASLLRNLRGQQRTLLNKFTENDSEKVDRLMELHF KYLG
AMQVADKKIEGEKHDMVRRGEIIDNDTEEEFYLRRLDAGLFVLQHICYIMAEICNANVPQIRQRVHQILNMRGSS
IKIVRHIIKEYAENIGDRSPEFRENEQKRILGLENF

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FIGURE 5765

CCTCCCTCGGGCTCCGGTCCCCTGGGTGAGCCCCAGCGCTGGCGGCGTGGGCCCCGGGACTGGGCAATGGGTGGCC
TCCCAGGTCGCCGCTTCCC GCGGGGCCCCGCCCCCGCCCCAAAGCGGGCTATAAGTTAGCGCCGCTCTC
CGCCTCGGCAGTGCCAGCCGCCAGTGGTCGCACTTGGAGGGTCTCGCCGCCAGTGGAGGAGCCACCGCCCCCGC
CCGACCATGGCCGAGGAGCTGGTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACCACACG
GCCGACCTGTGCCGGGAGAAGCTGGTGGTGCGACGGGGCCAGCCCTTCTGGCTGACCTTGCACTTTGAGGGCCGC
AACTACGAGGCCAGTGTAGACAGTCTCACCTTCAGTGTCTGTGACCGGCCAGCCCCAGCCCTAGCCAGGAGGCCGGGACC
AAGGCCCCGTTTTCCACTAAGAGATGCTGTGGAGGAGGGTGAAGTGGACAGCCACCGTGGTGGACCAGCAAGACTGC
ACCCTCTCGCTGCAGCTCACCACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCCCTCCACT
GGCTACCAGGGATCCAGCTTTGTGCTGGGCCACTTTCATTTTGTCTCTTCAACGCTGGTGGCCAGCGGATGCTGTG
TACCTGGACTCGGAAGAGGAGCGGCAGGAGTATGTCTCACCCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAG
TTCATCAAGAACATACTTGGAAATTTTGGGCAGTTTGAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGAT
GTCAACCCCAAGTTTCTGAAGAAGCGCCGCGCTGACTGTCTCCGCGCGCAGCAGCCCCGTCTACGTGGGCCGGGTG
GTGAGTGGCATGGTCAACTGCAACGATGACCAGGGTGTGCTGTCTGGGACGCTGGGACAACAACACTACGGGGACGGC
GTCAGCCCCATGTCTGGATCGGCAGCGTGGACATCTGCGGCGCTGGAAGAACCACGGCTGCCAGCGCGTCAAG
TATGGCCAGTGCTGGGTCTTCGCCGCGTGGCCTGCACAGTGTGAGGTGCTGGGCATCCCTACCCGCGTCTGTG
ACCAACTACAACCTCGGCCCATGACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATC
CAGGGTGACAAGAGCGAGATGATCTGGAATTCCTGCTGGGTGGAGTCTGGATGACCAGGCCGGACCTGCAG
CCGGGGTACGAGGGCTGGCAGGCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGGACGTACTGCTGTGGCCCA
GTTCCAGTTCGTGCCATCAAGGAGGGCGACCTGAGCACCAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAAT
GCCGACGTGGTAGACTGGATCCAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGG
CTGAAGATCAGCACTAAGAGCGTGGGCCGAGACGAGCGGGAGGATATCACCCACACCTACAAATACCCAGAGGGG
TCCTCAGAGGAGAGGGAGGCCCTTCAACAAGGGCGAACCACCTGAACAAACTGGCCGAGAAGGAGACAGGGATG
GCCATGCGGATCCGTGTGGGCCAGAGCATGAACATGGGCAGTGACTTTGACGTCTTTGCCACATCACCAACAAC
ACCGCTGAGGAGTACGTCTGCCGCTCCTGCTCTGTGCCGCGACCGTCAGCTACAATGGGATCTTGGGGCCCCGAG
TGTGGCACCAAGTACCTGCTCAACCTCAACCTGGAGCCTTTCTCTGAGAAGAGCGTTCCCTCTTGCATCCTCTAT
GAGAAATACCGTGACTGCCTTACGGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGAGCCAGTTATCAAC
AGCTACCTGCTGGCTGAGAGGGACCTCTACCTGGAGAATCCAGAAATCAAGATCCGGATCCTTGGGGAGCCCCAAG
CAGAAACGCAAGCTGGTGGCTGAGGTGTCCCTGCAGAACCCTGCTCCCTGTGGCCCTGGAAGGCTGCACCTTCACT
GTGGAGGGGGCCGGCCTGACTGAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGGAGGCAGGGGAGGAAGTT
AAGGTGAGAATGGACCTGCTGCCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTCGAGAGCGACAAGCTG
AAGGCTGTGAAGGGCTTCCGGAATGTCATCATTGGCCCCGCTAAGGGACCCCTGCTCCCAGCCTGCTGAGAGCC
CCCACCTTGATCCCAATCCTTATCCCAAGCTAGTGAGCAAAATATGCCCTTCTTGGGGCCCCAGACCCAGGGCA
GGGTGGGCAGCCTATGGGGGCTCTCGGAAATGGAATGTGCCCTGGCCCATCTCAGCCTCCTGAGCCTGTGGGTG
CCCCTCACCCCCCTTTGCTGTGAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTTGGCTGACTGGGGC
TGGGGTGAGAGAGGAAAGACCTACATTCCCTCTCTGCCCAGATGCCCTTTGGAAAGCCATTGACCACCCACCAT
ATTGTTTGATCTACTTCATAGCTCCTTGGAGCAGGCAAAAAAGGGACAGCATGCCCTTGGCTGGATCAGGGAAAT
CCAGCTCCCTAGACTGCATCCCGTACCTCTTCCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACAGCCAGAG
CTGGGTGGGGACAGTGATAGGCCCAAGGTCCCTCCACATCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAA
CCTCACCATTTGTAAGCACCTACTATGTGCTGGGTGCCCTCCACACTTGCTGGGGCTCACGGGGCCTCCAACCCA
TTTAATCACCATGGGAACTGTTGTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGC
CCCCTCCACACCAAGTGGCCTCGTGGTTATTAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCCT
CTGACTCTGAGTCCACTGCTCCATTTATAACCCAGCCTGACCTGAGACTGTGCGGAGAGGCTGTCTGGGGCCTTT
ATCAAAAAAAGACTCAGCCAAGACAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGT
TCAGGTCCCACGTCTGGCCAGGCACTGCCTTCTCCTCTCTGGGCCTTTGTTTCCTTGTGGTCAGAGGAGTGATT
GAACCAGCTCATCTCAAGGATCCTCTCCACTCCATGTTTGAAT

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FIGURE 5766A

CGCTCCTCCGAGATGACGCCGGGGTCGGTGCCCCGGGCCTGCCCTATCCCCTGGCTCCAGGGCTAGGCGGGACCG
AGGGCTGCCCCAGACAGACGGACCCGCGGACCCACAGACCCCGCGCCCAGGAGAGGAGCCGCGCCGCCCGCCGCT
GGCAGCCCGTCACCATGGTACCCCTCCATCCCTCGACACAGCCATCCAGCATGCCCTGGCGGGCCTCTATCCTCCT
TTCGAGGGCCACAGCACCCACCGTCCCTGGGTGAGGTGTTCCGTCTCCTGGACTCTGGCTTCCAGGGGGATGGGCTG
AGCTTCCTTCTGGATTTCTGATCCCTGCCAAGCGCCTGTGTGAGCAAGTGCAGAGAAGCAGCCTGTGCTCCCTAC
TCACACTGCCTCTTCTTACACGAGGGCTGGCCACTCTGTCTGAGGGATGAAGTTGTGGTCCACTTGGCACCCCTC
AACCCTCTCTTATTGCGCCAGGGTGACTTCTACCTCCAAGTGAGCCCCAGGAGGAGCAGTCTGTCTGCATCATG

ATCAAATGCCTCTCCCTGGACCTCTGCACAGTGGACAAGAAGCCTGTTCCAGAGCCAGCCTACCCTATACTTTTT
ACCCAAGAATGGCTGGAGGCCATCAACAGTGACTTTGAGGGAAATCCCCTACACAAGTCTTGGTAGCATCAGAA
AATGGGATTGCCCCCTGTGCCTTGGACCAAGATAACCAGCCAGAGTTTGTGGATGACAGACCCCCAAGTAGTGAAT
GCCCTCTGCCAAGCCTGGGGGGCCCCCTCCATTAGAGGCACTGGATTTGAGCAGCCCTCAAGAGTTGCACCAGGCC
AGCTCCCCAGACAACCAGGTGCTTCCTGCCAGAGTTTGGCCAAGGGTAAGGGCAGGACATATGGGAGCAAGTAT
CCAGGACTCATCAAGGTGGAGCAAGCCCGGTGTGGGGAGGTGGCTTTCAGGATGGACGAGGTGGTCAGCCAGGAC
TTCGAGGGGAGACTATGTGGCTCTCCTAGGCTTTTCCCAAGAGAGCAGAGGAGAGTCTCCAGTAGGGAGGCAGGC
ACATCCAGTGGGTGTACTTCTGGGGCACTAGAGGAGATAGCTGGAACATAAGGAACTCCCTTATTTCAAAGATA
CTGCCCTCTCTCAGAGGCCAATGAAGGACCTTCCTTGGGAAATCGGGCTTGACAAAGCCAGAAAGCTCTGAGGAG
AGGCCCTATAATTTGGGCTTCAGGAGAAAGGTCAATCTTAAAGCACCCACCCACAAGTCTAGAAAGGCCGCCCAA
GGCTCCTACATGAATGTCTTGGAGACGCACTGGACTGTGCCTCTGGTCTCAGGGCAGGTGTCTCACAAGAGCCA
GCTGCCTCCAAGATGCAGGGACCTCTAGGAAACCCAGAGAATATGGTGCAGCTCAGGCCTGGACCAAGACAAGCC
TCCTCTCCCCCGCTGTCCCCAGCTTCTCCTGCAGCTGCAGCCTCTGAAACAAAGATAGAGGTGAAGACCAAAGAG
AGAAATGGGAGACTTCCCAAGCCCATGCCCTGCCCTAGCAGAAACACCTCCTCCCTGAGCCCCCACTCCTGGG
CTCAAATTCTCATTCTTGGAGGGCAGAGGCAACCCCTCTGTGACCCCGAGAAAGCCTCACTCCAGCACAATGGG
CCCTGGAAAGTCTGTGTTCCCTCTACTCTCCTAAACCCAAACCGAGCCAAATCTTTGGGAAAGCTGGAACAACT
CAGACCAAAACATCTGGCCAGCCACTGCCCCCAGCCCACTGACTGAGGAAAAGGCTGCCTTGCCAGAAGCTTCT
GCAGGCTCCCCAGAAAGAGGCCCCACCCTGGAGGAGGAGCCCCCAGGGCCTGAGCCAGGATTGGGGCTCTAGGT
GTCAAGGTTTTTCCGCTCCAGGATAGCATGCCTGCCAGGTGGCCGGGACAGGGCCGGGCGGCCCTGCTTCTGGTG
TCAACTACAGAGGGGGCCTGGGAGGCACCATGGTGCACAGTTTCAGAGGTCACCAAGCTACTGTCTACCTGTGT
ACCATCCCCAGGCCTGAAGATAAAGCCAAGGGGCTGGCGGTCTCTGATTGACGCCAGGAGACAGCCCCCACAGCCC
GGTCTGGTCAGCGCCCTGCAGGCCACCCAGGCTCAGGTCCCAGCCTCTATCCGGGCTATTCTCTTCTGGGGGAG
AAGGAGGCGGCTCTCCAGCTGCAGACATTACCTGACGTCCAGGTGGAGGTGCTGACCTCATTGAAGGCCCTCAGC
CACCATGTGGACCCCAAGCAGCTGCCCGCAGTCTTGAAGGCCCTTCCCTACTGCCACACCGAGTGGGTTCAAT
TTCTTCCAGAAGCTGGACCCCTTTCCCTGCTGACCTCCACCAGGCCTCTTCCCTGCTACAAGCTTCCATCGAGGAA
TTCGAGAAGGCCGACCCCTTGGGGGGATGCAGGAGGCTACCAGGTGCCCTGAGCAAGTCCAAGGAGCTGATGGAG
GCTGTGCTGAGGGACCCCGCCTACTGGGCCTCCAGCGGGAAGGTGGAGCCACCCTGGCCAGGCTGCAGCATGAT
GCCAGCAGGCTGGACTTCAGCCCTGATGTGAGGAGCCATCTGGCTGCAGCCACTGCCTTGTACAGCCTTGTGGAC
GAGCAGCTTCAATGTTCTGGTCACCGCTTCCAACAGCCTCCTGGGGAAAGCTGGAGCTCCGTGTCCGCCTGGGCCGC
CTGGAAGCTGCCATTACACAGGTGAGGACTGGATGGAGCAGGAAGGAAGGCGGTGCCTGCAATCACTGACCCCC
AAGGATGGAAGTTTGGAGACAGTGGAGAAAGCCACGCAGAATTTGAGAACTTCTTCTCCAGGCTGCAGCCAG
TACCGCCGAGGCCTGGAGCTGTCCAAGCAGGCCGCTCAGCTGGGAGCTACAGCCAGAGGGGCTGGGGAGGCAGAA
CGTGCAGAGTTCCAGAGCTGGCAGCCTTTGCCTCTACCCAGCGGGCCTTCCAGGCTGAGCTGACCCACTTTTAC
ATGGCGGCCGAGCGGCAACGCACGGACCTCGAGACGCTGCTCCACCTGCACCGCTTCTGCAAGAGGATGACCTGG
TTCCACATGGACTGTGAGGACCTGATGGCCCAGCTCAGGCTGGACAAGACCTCAAGGCTCAGTCTTGGGGACAG
CGCCGCTCCACCGCTACCTGCAGCGACTGGCATCTGAGTTCCCTGCTGAGAAGCTCGCAGCCGTGGGGCTGCAG
GTGGCTCCCTGAGCCGGGCAGGCCTGGGCCAGGAGCTATGGGAGGAGGCCCGGATCAGGCATGAGGAGATCCGG
ATGCTCCTGGAGAAGGCACTGACCCACAGCTCTTGCCAGAGGCTCCAGCTGCTCACTCAGCGCGCCCAAGACGA
AGAGGGGTGGCAGCCAAGGGCCAGGGTGTGAGTGTAGAGGTCACTTCCAAGGGGAGGTGGGATCAGCCTCCACTA
GACTCACTGGGCATGGACATTTGCCAAAGTCTATTGGCCTCCTGGGCCCCCAGAGGGGAACAGAACAGAAGT
TTCCAGGCAGGCTCTCCACCCAGGAAGCTGGCCAGGCTGCAGAGGCTGAAGACGGCAAAGGCTCCCAAGCTG

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FIGURE 5766B

CCTGACCCTGCCCCGCGAGCATTGCTTGCCACCACCTTCTTCCGGCAGCAGCCCCCAGGCAGAGCCAGGTCCCT
CGCCTCACTGGGGGCGAGCTTCTCCTCAGAGGGGACAGACTCACAGACATCCCTTGAGGACTCACCCAGACAAGT
CCCCTTGCCCTCCCTCTAGCTGAGAGGGCCCTTCAGTCGCACCAGCCTCCAGGAGCACTGGGGCCAGGGCCAGCTG
GAGGGGTAGCTGGGAGCTCTGGTCAGTCCCAGTGAGACGTACCATGGAGCACTGGTTTTACATTCTGCCTCTGC
TGGGAGGATGAGAACTGTCGACCTGCCCCCTGGCTCCAGAAAACTCCTGGAAGACCCGATCTTCACCCATGCAGAA
TAGCAAGAGTGGGCGTCAGAACCAGGGCACAATAAATGGTGTGATTGGCTCCATCCCTCCAGGCTCTCATTGTGG
AAAGACCTGTGCGGCACAGACCCCTCCAGAGGTCTCGCTCGCAGGCAGGCAGACACCCACCTGCAGCTCAGGAACA
TACACAGCTCTCCCCCTCGGGTACGAGGGCCAGTGTGTCCTTAGGCAGAATCCTCGGGGAGATTGGGGAGTGCTT
CCTTGTCTTGGAATCCAGGAAAAATGGACCCTGAGATGAGGATTTAAGGATCAGTGTGTTTGGTGCTGATCCAGGA
ACCTCTGCTGGGGGAGTAGGAGGCGAATCTGCAAAGGGAATAAAGAGTATGTTGTCAAGCAAATTTTCTTTTTTT
TAATTTTTTAAACCTTATTGTATTTTATGTTTAGAGATGGGGCCTCACTACATTGCCCAGGCTGGTCTCAAACCTC
CTGGGCTCAAGTGATCCTCTTGCCCTGGCCAGTGTGGGATTGCCTTTTCCGCCACCCCCCCCCGACCC
CACCAGAGACAGGGTCTCACTCTGGTGTCCAGGCTGGAGTGCAGTGGTGCAATCATAGCCTTAAATTCCTGGGTT
CAACCAATCCTCCCACCTCAGCCTCCTAAGTAGCTGGGACTACAGTTATGCACCACCATGCTCAGCTTATTATTT
ATTTATTTTTTTGTAGACATGGGGTCTTGCTATGTTGCCCAGGCAGGCTGATCTCAAGCTCAAGTGATCCTCTGGA
CTCAGCCTCCCAAAGTGCTGGGATTATACGTATGAGCCACTGTGCCCCACCTCATACAAATTTCCATGTTGGCA
ACTGTAGCTGGATCTTTCTGGAGATCTCTGAAAGACAGCATGGAATCCTTGAACACCCCCCTGAGGCGTGAGGCAT
CCAGAGCATTATCTGCCAACCCCTCAGGAGCTGGCACTCGTAGACAGCACGCACAGCCAGCTCCATTGGTCTTGG
CAAAGAGAAATTGCCTCCTGGAGCCAGAGGCCGTTTCTGTGCTTAGAAAGGAAGGACATGTCTTCTGTGCTCCCT
GTCTCACAAGGCCTCTTCAGCAGGCATGGGACCTTCATTCTCAAGTTCAAGGAACCCCTGTGGAACCTTGTCTTG
TCCTCCAGAGAGAATCCTCTCCGCCTTAGAGGTCCCTCCTCTCTCTCACCTCCCCACCAAGCCTCCCTGAACTCA
ATGTCTTCTGTCCCTTCCCTGCCCAACTTCCACTTCTCTATGCCCAGCCTCTGTGGCCCCAGTACCATTGGGGTT
CTGTGGGCAGCTGGGTCTGGTGGTTGGGGACCGTGGGAAGGGGCCTATCTGTGCGATCTTAGATGGAGCATCCA
GAAGCCCCACCCCTCATACTGGCCAGAGTGGCCCCCTGCCAGCGCCTCTCTGGAGTGTCAATTAAGCTGAAAGTGT
TGCCTTACCTCTGCAGTAGGATGCATTACTGAAGTGGCCTCTTGGTCACCTAGCTCTGAATTTTCTGGCTCCAG
AAAGAGGCTGTGGGGCACAGGTCCCCACAATGAGGCTGTGAAGGGGAGAGAGGCAGGCCTGGGGCCAGGCACAGG
AGGACAACCTAGGGCTTCTCAGGAGCTGTCTCAGCCAAGAGTCACACACTTGATACCTAAAATGGCTTCAGGAATC
TTCCAAGACTGAAGACTTCCCCAGGTGTGGTCTAGGGCCTGCCTGCCTCAGAGCCATGAGCAGAGCCGGTCAAAA
GGCTTCTTAGGGAATCCTACCCCAGACATTAATAATAGACTCTTGGTGCTGGCAGGTGGCTGGAATCTGCGTTTGT
AGCCAAGTGCTCTTCTGTGTGACTCAGCAAAGTGGGGGTGCATTTGGGGAACACCCGGGGCTGGGGCCTGAGTC
CTCCACCCAAAGCCAGGTTTGATTCTTGCAATCCCCCTCCCTGCCTTCCATCCAGACAGGCCCAAAGATGCAAGAG
GCGTTGATCAGCCCATCTCCATCCATGCCTGTTGCCTCAGAGAGGGCCGACGGCTTTTAAATGCTGTTGCCATA
GCAACAGCATCCAGCCAGTGGGTACCACAGGCAGGGAGCCACAGAACTGGGGTGCTGGGATGGAACTGACTTG
TGAGAGACCACAGCTACTGCTAGAAGGAAGGGGGGCAAAGCGGGCACAGGTAATCTAAGAATACTTGGGCGGGAG
GAGTCCCCAAGGTTACCTTGTGCATCCCTCTGTCCCCAGAAAGAACTGTACCCCAACAATCTCTCCCTCACTGC
ATCCCTTGGGGAAGAAGGGAATGCAGAAATGAAATGTCATAATGAGTAACAATGTATAAAAATATCGAATAATAA
CAGCT

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FIGURE 5767

MIKCLSLDLCTVDKKPVPEPAYPILFTQEWLEAINSDFEGNPLHNCLVASENGIAPVPWTKITSPEFVDDRPQVV
NALCQAWGPLPLEALDLSSPQELHQASSPDNQVLPAQSLAKGKGRTYGSKYPGLIKVEQARCGEVAFRMDEVVSQ
DFEGDYVALLGFSQESRGESPSREAGTSSGCTSGALEEIIAGTKETPLFQKILPLSEANEGPSLGNRACTKPESSE
ERPYNLGFRRKVNLIKAPTHNSERPPQGSYMNVLLEDALDCASGLRAGVSQEPAASKMQGPLGNPENMVQLRPGPRQ
ASSPRLSPASPAAAASETKIEVKTKERNRGLPKPMPCPSRNTSSPEPPTPGLKFSFLRGQRQPSVTPEKASLQHN
GPWKVLCSLYSPKPNRAKSLGKAGTTQTKTSGPATAPSPLTEEKAALPEASAGSPERGPTLEEEPPGPEPRIGAL
GVKVFRSRIACLPGGRDRAGRPLLLVSTTEGAWAPWCTVSEVTKLLSYLCTIPRPEDKAKGLAVLIDARRQPPQ
PGLVSALQATQAQVPASIRAILFLGEKEAALQLQTLPDVQVEVLTSKALSHHVDPSQLPAVLEGPFPYCHTEWV
HFFQKLDPFLADLHQASSLLQASIEEFKADPPGGMQEATRCLSKSKELMEAVLRDPGLLGLQREGGATLARLQH
DASRLDFSPDVRSHLAAATALYSLVDEQLHVLVTASNSLLGKLELRVRLGRLEAAIHQVSDWMEQEGRRCLQSLT
PKDGSLETVEKAHAEFENFFLQAAAQYRRGLELSKQAAQLGATARGAGEAERAEPPELAFASTQRAFAQELTHF
YMAAERQRTDLETLHLHHRFCKRMTWFHMDQCQDLMAQLRLDKTSRVSPGDQRRRLHRYLQRLASEFPKLAAGL
QVASLSRAGLGQELWEEARIRHEEIRMLLEKALTHSSCPEAPAAHSARPERRGVAAGQGVSVSVTSKGRWDQPP
LDLSLGMDDLKPSYWPFGPPRGEQNRTFQAGSPPQEAGQAAEAEDGKGSHKLPDPAREHLLATTFRQPPRQSQV
PRLTGGSFSSSEGTDSQTSLEDSPQTSPLASL

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FIGURE 5768

AGGCCTTGAGGTTTTGGCAGCTCTGGAGGATGAGAGAGAACATGGCCAGGGGCCCTTGCAACGCGCCGAGATGGG
CGTCCCTGATGGTGCTGGTTCGCCATAGGCACCGCCGTGACAGCGGCCGTCAACCCTGGCGTCGTGGTCAGGATCT
CCCAGAAGGGCCTGGACTACGCCAGCCAGCAGGGGACGGCCGCTCTGCAGAAGGAGCTGAAGAGGATCAAGATTCT
CTGACTACTCAGACAGCTTTAAGATCAAGCATCTTGGGAAGGGGCATTATAGCTTCTACAGCATGGACATCCGTG
AATTCCAGCTTCCCAGTTCCCAGATAAGCATGGTGCCCAATGTGGGCCTTAAGTTCTCCATCAGCAACGCCAATA
TCAAGATCAGCGGGAAATGGAAGGCACAAAAGAGATTCTTAAAAATGAGCGGCAATTTTGACCTGAGCATAGAAG
GCATGTCCATTTGGGCTGATCTGAAGCTGGGCAGTAACCCACGTCAGGCAAGCCCACCATCACCTGCTCCAGCT
GCAGCAGCCACATCAACAGTGTCCACGTGCACATCTCAAAGAGCAAAGTGGGGTGGCTGATCCAACCTCTTCCACA
AAAAAATTGAGTCTGCGCTTCGAAACAAGATGAACAGCCAGGTCTGCGAGAAAGTGACCAATTCTGTATCCTCCG
AGCTGCAACCTTATTTCCAGACTCTGCCAGTAATGACCAAAATAGATTCTGTGGCTGGAATCAACTATGGTCTGG
TGGCACCTCCAGCAACCACGGCTGAGACCCTGGATGTACAGATGAAGGGGGAGTTTTACAGTGAGAACCACCACA
ATCCACCTCCCTTTGCTCCACCAGTGATGGAGTTTCCCGCTGCCCATGACCGCATGGTATACCTGGGCCTCTCAG
ACTACTTCTTCAACACAGCCGGGCTTGTATACCAAGAGGCTGGGGTCTTGAAGATGACCCCTAGAGATGACATGA
TTCCAAAGGAGTCCAAATTTGACTGACAACCAAGTTCTTTGGAACCTTCTACCTGAGGTGGCCAAGAAGTTTC
CCAACATGAAGATACAGATCCATGTCTCAGCCTCCACCCCGCCACACCTGTCTGTGCAGCCCACCGGCCTTACCT
TCTACCTGCGGTGGATGTCCAGGCCTTTGCCGTCTCCCAACTCCTCCCTGGCTTCCCTCTTCTGATTGGCA
GCACACAACGGTTCCATGGAGGTCAGCGCCGAGTCCAACAGGCTTGTTGGAGAGCTCAAGCTGGATAGGCTGCT
CCTGGAACCTGAAGCACTCAAATATTGGCCCCCTTCCCGTTGAATTGCTGCAGGATATCATGAACCTACATTGTACC
CATTCTTGTGCTGCCCAGGGTTAACGAGAACTACAGAAAGGCTTCCCTCTCCCGACGCCGCGCCAGAGTCCAGCT
CTACAACGTAGTGCTTCAGCCTCACCAGAACTTCTGCTGTTCCGGTGCAGACGTTGTCTATAAATGAAGGCACCA
GGGGTGCCGGGGGCTGTCAGCCACACCTGTTCTGATGGGCTGTGGGGCACCGGCTGCCTTTCCCCAGGGAATCC
TCTCCAGATCTTAACCAAGAGCCCCCTTGCAAACCTTCTTCGACTCAGATTAGAAATGATCTAAACACGAGGAAAC
ATTATTCAATTGAAAAGTGCAATGGTGTGATTTTAGGGATTATGAGCTTCTTTCAAGGGCTAAGGCTGCAGAGAT
ATTTCTCCAGGAATCGTGTTCATTGTAACCAAGAAATTTCCATTTGTGCTTCATGAAAAAACTTCTGGTT
TTTTTCATGTG

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FIGURE 5769

GCGCTCCAAGATGGCGGCGAACGTGTTCCCGTTCCGCGACGCCCGTGCCGCACCGGACCCAGTGCTGGAGGCCGG
CCCCGTGGCACACGGGCCACTGCCGGTACCGCTGGTGTGGACAACGGGTCGTTCCAAGTCCGCGCTGGCTGGGC
GTGTCCCGGGCAGGACCCAGGTCCCGAGCCGCGCCTGCAGTTCCGCGCGGTGTGCGCCCGCGGTCTGGCGGGGC
ACGGGGCGCGTCGGGCCCCGAGGTGGGGAACGCTCTGGGCAGCCTGGAGCCACTGCGCTGGATGCTGCGCTCGCC
CTTCGACCGCAACGTGCCGGTCAACCTGGAGCTTCAGGAGTTGCTGCTGGACTACAGCTTCCAGCACCTGGGTGT
CTCCTCACAGGGCTGTGTTGATCATCCCATAGTTTTGACAGAAGCTGTGTGCAACCCACTGTATTACGGCAAAT
GATGTCTGAGCTTCTTTTTGAGTGCTACGGGATTCCCAAGGTTGCCTATGGAATAGACAGCCTCTTCAGCTTCTA
CCACAATAAGCCAAAGAAGCTCGATGTGCAGTGGGCTAATCATTTCATCTGGATAACAGTGTACGCATGTTTTACC
CATCTTAGAAGGGAGATTAGATGCTAAAACTGCAAGCGCATCAATCTTGGAGGAAGCCAAGCAGCTGGTTACCT
CCAGCGTCTCCTCCAGCTGAAGTACCCTGGGCACCTGGCAGCCATCACCTCAGCCGCATGGAGGAGATTCTGCA
TGAGCACAGCTACATCGCTGAGGATTATGTGGAAGAATTACACAAATGGCGGTGTCTGATTATTATGAGAATAA
TGTCCACAAGATGCAGCTCCCATTTTTCCAGCAAGCTCCTGGGCAGCACTCTGACCTCTGAGGAGAAACAAGAAAG
GCGGCAGCAGCAATTGCGGCGGTGCAGGAGCTCAATGCCCGGCGGCGGGAGGAGAAGCTGCAGCTGGATCAGGA
GCGTCTGGACCGACTGCTATATGTGCAGGAACCTCTAGAGGATGGCCAGATGGATCAGTTTCACAAAGCTCTGAT
AGAGCTGAATATGGACTCCCCAGAAGAGCTGCAGTCTTACATCCAGAAGCTCAGTATAGCAGTGGAGCAGGCTAA
GCAGAAAATCCTCCAAGCGGAAGTCAACCTCGAGGTGGATGTGGTAGACAGCAAGCCAGAGACCCCTGACCTGGA
GCAGCTGGAGCCGCTTTTGAAGATGTGGAAAGCATGAATGATTTTGATCCCTTGTTTTTCAGAGGAAACACCTGG
AGTGGAGAAGCCGGTCAACCTGTTTCCAGCCGTTGTTAACTTGGCAGCATATCATCAGCTATTTGTTGGGACAGA
AAGAATTCGAGCTCCAGAGATTATTTTCCAGCCATCTCTCATAGGAGAAGAACAGGCTGGGATTGCAGAGACTCT
TCAGTACATTCTGGACAGGTACCCAGAGGACATTCAGGAAATGCTGGTTTCAAGACGTTTTCTCTACTGGCGGCAA
CACGATGTATCCTGGCATGAAAGCCAGAATGGAGAAGGAACCTGTTGGAGATGAGACCCCTCCGGTCTTCTTTTCA
GGTTCAACTTGCCCTCGAACCCTGTGCTGGATGCCTGGTACGGTGCTCGTGAAGTGGGCCTTGAACCACCTAGATGA
TAATGAAGTTTGGATCACCAGGAAAGAGTATGAAGAAAAGGGAGGAGAGTACCTCAAGGAGCACTGTGCTTCCAA
CATCTATGTCCCCATCCGCTGCCGAAGCAGGCCTCCCGCTCCTCAGATGCCCAGGCATCCAGCAAGGGCTCCGC
TGCTGGTGGAGGTGGTGTGCTGGTGAGCAGGCATAGCAGAGGCCCTCCAGAGAGACTGCCCTGCACGCCATGCCCTG
GGCCACGTTGGCAGTGTGACAGGACTGTGATTGTGCTAGATGTACCTGCCCAAGTCTGCTGGTCACATTTGGCAG
CAAAATGGATTTCTCCTGGGGAGAACAAAGTTAAGGGACACTGAGACCTGCCCTTCAAGATTCGGTTCACTTGGG
GGCTTCTGTGGTAGAGACTAACTGGCCTTCTGATGTCTTTGTTCAACTGTGGCCAGCTGTGGCATCAGCTTCCTG
GAGCAGTAAATGAAGACAGAGTGGAGGACACAAATGTACAAAATGCACAAGACTGATTTCTTACCACATTTTAGT
CTTTCTTGTTTT

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FIGURE 5770

MAANVFPPRDARAAPDPVLEAGPVAHGPLPVPLVLDNGSFQVRAGWACPGQDPGPEPRLQFRAVCARGRGGARGA
SGPQVGNALGSLEPLRWMLRSPFDRNVPVNLELQELLLDYSFQHLGVSSQGCVDHP IVLTEAVCNPLYSRQMMSE
LLFECYGIPKVAYGIDSLFSFYHNKPKNSMCSGLIISSGYQCTHVLPILEGR L DAKNCKRINLGGQAAGYLQRL
LQKYPGHAAITLSRMEEILHEHSYIAEDYVEELHKWRCPDYYENNVHKMQLPFSSKLLGSTLTSEEKQERRQQ
QLRRLQELNARRREEKLQLDQERLDRLLYVQELLEDDGQMDQFHKALIELNMDSPEELQSYIQKLSIAVEQAKQKI
LQAEVNLEVDVVD SKPETPDLEQLEPSLEDVESMND F DPLFSEETPGVEKPVTTVQPVFNLAAYHQLFVGTERIR
APEIIFQPSLIGEEQAGIAETLQYILD RYPEDIQEMLVQNVFLTGGNTMYPGMKARMEKELLEMRPFRRSSFQVQL
ASNPVLDAWYGARDWALNHLDDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAAAG
GGAGEQA

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FIGURE 5771A

GGGGTGCCGCCGCCGCCGTTGCGCTTGCTCCCGGGCGGTCTGGCCTGTGCCGCCGCCGCCCCAGCGTCCGAGC
CATGGCGGGCGCCGCGTCCCCTTGCGCCAACGGCTGCGGGCCCGCGCGCCCTCGGACGCCGAGGTGCTGCACCT
CTGCCGCAGCCTCGAGGTGGGCACCGTCATGACTTTGTCTACTCCAAGAAGTCGCAGCGACCCGAGCGGAAGAC
CTCCAGGTCAAGCTGGAGACGCGCCAGATCACGTGGAGCCGGGGCGCCGACAAGATCGAGGGGGCCATTGACAT
TCGTGAAATTAAGGAGATCCGCCCAGGGAAGACCTCACGGGACTTTGATCGCTATCAAGAGGACCCAGCTTTCCG
GCCGGACCAGTCACATTGCTTTGTCTATTCTCTATGGAATGGAATTCGCCTGAAAACGCTGAGCCTGCAAGCCAC
ATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTGGCTGATGGAGGATACATTGCAGGCACCCACACC
CCTGCAGATTGAGAGGTGGCTCCGGAAGCAGTTTTACTCAGTGGATCGGAATCGTGAGGATCGTATATCAGCCAA
GGACCTGAAGAACATGCTGTCCCAGGTCAACTACCGGGTCCCCAACATGCGCTTCTCCGAGAGCGGCTGACGGA
CCTGGAGCAGCGCAGCGGGGACATCACCTACGGGCAGTTTGCTCAGCTGTACCGCAGCCTCATGTACAGCGCCCA
GAAGACGATGGACCTCCCCTTCTTGGAAGCCAGTACTCTGAGGGCTGGGGAGCGGCCGGAGCTTTGCCGAGTGTC
CCTTCTGAGTTCCAGCAGTTTCTTCTTGACTACCAGGGGGAGCTGTGGGCTGTTGATCGCCTCCAGGTGCAGGA
GTTCAATGCTCAGCTTCTCCGAGACCCCTTACGAGAGATCGAGGAGCCATACTTCTTCTGGATGAGTTTGTAC
CTTCTGTTCTCCAAAGAGAACAGTGTGTGGAACTCGCAGCTGGATGCAGTATGCCCGGACACCATGAACAACCC
TCTTTCCCACTACTGGATCTCTCTCGCACAAACAGTACCTGACCGGGGACCAGTTCTCCAGTGAGTCTCTCTT
GGAAGCCTATGCTCGCTGCTGCGGATGGGCTGTGCTGCATTGAGTTGGACTGCTGGGACGGCCCGGATGGGAT
GCCAGTTATTTACCATGGGCACACCCTTACCACCAAGATCAAGTTCTCAGATGTCTTGACACCATCAAGGAGCA
TGCCTTTGTGGCCTCAGAGTACCCAGTCATCTGTCCATTGAGGACCACTGCAGCATTGCCCGACGAGAGAAAT
GGCCCAATACTTCAAGAAGGTGCTGGGGGACACACTCCTCACCAAGCCCGTGGAGATCTCTGCCGACGGGCTCCC
CTACCCAAACCAGCTTAAGAGGAAGATCCTCATCAAGCACAAGAAGCTGGCTGAGGGCAGTGCCCTACGAGGAGGT
GCCTACATCCATGATGTACTCTGAGAACGACATCAGCAACTCTATCAAGAATGGCATCTCTACCTGGAGGACCC
TGTGAACCACGAATGGTATCCCCACTACTTTGTTCTGACCAGCAGCAAGATCTACTACTCTGAGGAGACCAGCAG
TGACCAGGGCAACGAGGATGAGGAGGAGCCCAAGGAGGTGAGCAGCAGCAGAGCTGCACTCCAATGAGAAGTG
GTTCCATGGGAAGCTAGGGGCAGGGCGTGACGGGCGTCACATCGCTGAGCGCCTGCTTACTGAGTACTGCATCGA
GACCGGAGCCCCTGACGGCTCCTTCTCGTGCGAGAGAGTGAGACCTTCGTGGGCGACTACACGCTCTCTTTCTG
GCGGAACGGGAAAGTCCAGCACTGCCGTATCCACTCCCGGCAAGATGCTGGGACCCCCAAGTTCTTCTTGACAGA
CAACCTCGTCTTTGACTCCCTCTATGACCTCATCAGCACTACCAGCAGGTGCCCCCTGCGCTGTAATGAGTTTGA
GATGCGACTTTTCAGAGCCTGTCCCACAGACCAACGCCACGAGAGCAAAGAGTGGTACCACGCGAGCCTGACCAG
AGCACAGGCTGAGCACATGCTAATGCGCGTCCCTCGTGATGGGGCCTTCTTGGTGCGGAAGCGGAATGAACCCAA
CTCATATGCCATCTCTTTCCGGGCTGAGGGCAAGATCAAGCATTGCCGTGTCCAGCAAGAGGGCCAGACAGTGAT
GCTAGGGAACCTCGGAGTTTCGACAGCCTTGTGACCTCATCAGCTACTATGAGAAACACCCGCTATACCGCAAGAT
GAAGCTGCGCTATCCCATCAACGAGGAGGCACTGGAGAAGATTGGCACAGCTGAGCCTGACTACGGGGCCCTGTA
TGAGGGACGCAACCCCTGGCTTCTATGTAGAGGCAAACCCCTATGCCAACTTTCAAGTGTGCAGTCAAAGCCCTCTT
TGACTACAAGGCCAGAGGGAGGACGAGCTGACCTTCATCAAGAGCGCCATCATCCAGAATGTGGAGAAGCAAGA
GGGAGGCTGGTGGCGAGGGGACTACGGAGGGAAGAAGCAGCTGTGGTTCCCATCAAACCTACGTGGAAGAGATGGT
CAACCCCGTGGCCCTGGAGCCCGAGAGGGAGCACTTGGACGAGAACAGCCCCCTAGGGGACTTGCTGCGGGGGGT
CTTGGATGTGCCGGCTTGTCTAGATTGCCATCCGTCTGAGGGCAAGAACAACCGGCTCTTCTGCTTCTCCATCAG
CATGGCGTCGGTGGCCCCACTGGTCCCTGGATGTTGCTGCCGACTCACAGGAGGAGCTGCAGGACTGGGTGAAAAA
GATCCGTGAAGTGGCCCAGACAGCAGACGCCAGGCTCACTGAAGGGAAGATAATGGAACGGAGGAAGAAGATTGC
CCTGGAGCTCTCTGAACTTGTCTGCTACTGCCGGCCTGTTCCCTTTGATGAAGAGAAGATTGGCACAGAACGTGC
TTGCTACCGGGACATGTCTATCCTTCCCGGAAACCAAGGCTGAGAAATACGTGAACAAGGCCAAAGGCAAGAAGTT
CCTTCAGTACAATCGACTGCAGCTCTCCCGCATCTACCCCAAGGGCCAGCGACTGGATTCTTCCAACCTACGATCC
TTTGCCCATGTGGATCTGTGGCAGTCAGCTTGTGGCCCTCAACTTCCAGACCCCTGACAAGCCTATGCAGATGAA
CCAGGCCCTCTTCATGACGGGCAGGCACTGTGGCTACGTGCTGCAGCCAAGCACCATGCGGGATGAGGCCTTCGA
CCCCTTTGACAAGAGCAGCCTCCGCGGGCTGGAGCCATGTGCCATCTCTATTGAGGTGCTGGGGGCCGACATCT
GCCAAAGAATGGCCGAGGCATTGTGTGTCCTTTTGTGGAGATTGAGGTGGCTGGAGCTGAGTATGACAGCACCAA
GCAGAAGACAGAGTTTGTGGTGGACAATGGACTCAACCTGTATGGCCAGCCAAGCCCTTCCACTTCCAGATCAG
TAACCTGAATTTGCCTTTCTGCGCTTCGTGGTGTATGAGGAAGACATGTTTAGTGACCAGAATTTCTGGCTCA

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FIGURE 5771B

GGCTACTTTCCAGTAAAAGGCCTGAAGACAGGATACAGAGCAGTGCCTTTGAAGAACAACCTACAGTGAGGACCT
GGAGTTGGCCTCCCTGCTGATCAAGATTGACATTTTCCCTGCCAAGGAGAATGGTGACCTCAGTCCCTTCAGTGG
TACGTCCCTGCGGGAGCGGGGCTCAGATGCCTCAGGCCAGCTGTTTCATGGCCGAGCCCGGGAAGGCTCCTTTGA
ATCCCGCTACCAGCAGCCGTTTGAGGACTTCCGCATCTCCCAGGAGCATCTCGCAGACCATTTTGACAGTCGAGA
ACGAAGGGCCCCAAGAAGGACTCGGGTCAATGGAGACAACCGCCTCTAGTTGTACCCCAGCCTCGTTGGAGAGCA
GCAGGTGCTGTGCGCCTTGTTAGAAATGCCGCGAACTGGGTTCTTTGGAAGCAGCCCCCTGTGGCGGCCTTCCGGGT
CTCGCAGCCTGAAGCCTGGATTCCAGCAGTGAATGCTAGACAGAAACCAAGCCATTAATGAGATGTTATTACTGT
TTTGGGCCTCCATGCCCCAGCTCTGGATGAAGGCAAAAACCTGTACTGTGTTTCGCATTAAGCACACACATCTGGC
CCTGACTTCTGGAGATGGATCCTTCCATCTTGTGGGGCCAGGACCATGGCCGAAGCCCCTTGGAGAGAGAGGCTG
CCTCAGCCAGTGGCACAGGAGACTCCAAGGAGCTACTGACATTCCTAAGAGTGGAGGAGGAGGAGGCCTTGCT
GGGCCAGGGAAACAAAGTTTACATTGTCCTGTAGCTTTAAAACCACAGCTGGGCAGGG

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FIGURE 5772

MAGAASPCANGCGPGAPSDAEVLHLCRSLEVGTVMTLFYSKKSQRPERKTFQVKLETRQITWSRGADKIEGAIDI
REIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMFRLKTLSLQATSEDEVNMWIKGLTWLMEDTLQAPTP
LQIERWLRKQFYSDRNREDRISAKDLKNMLSQVNYRVPMRFLRERLTDLEQSRGDITYGQFAQLYRSLMYSAQ
KTMDLPFLEASTLRAGERPELCRVSLPEFQQFLLDYQGELWAVDRLQVQEFMLSFLRDPLREIEEPYFFLDEFVT
FLFSKENSVMNSQLDAVCPDTMNNPLSHYWISSSHNTYLTGDQFSSESSLEAYARCLRMGCRCIELDCWDGPDGM
PVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIAQQRNMAQYFKKVLGDTLLTKPVEISADGLP
SPNQLKRKILIKHKKLAEGSAYEEVPTSMYSENDISNSIKNGILYLEDPVNHEWYPHYFVLTSSKIYYSEETSS
DQGNEDDEEPKEVSSSTELHSNEKWFGKLGAGRDGRHIAERLLTEYCIETGAPDGSFLVRESETFVGDYTLFSW
RNGKVQHCRHSRQDAGTPKFFLTDNLVFDLSLYDLITHYQQVPLRCNEFEMRLSEPVPQTNAHESKEWYHASLTR
AQAEHMLMRVPRDGAFLVRKRNEPNSYAISFRAEGKIKHCRVQQEGQTVMLGNSEFDSLVDLISYYEKHPLYRKM
KLRYPINEEAEKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCAVKALFDYKAQREDELTFIKSAIIQNVEKQE
GGWWRGDYGKKQLWFPSNYVEEMVNPVALEPEREHLDENSPLGDLRGVLDVPACQIAIRPEGKNNRLFVFSIS
MASVAHWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVYCRPVPFDEEKIGTERA
CYRDMSSFPETKAKEYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSSNYDPLPMWICGSQALVALNFQTPDKPMQMN
QALFMTGRHCGYVLQPSTMRDEAFDPFDKSSLRGLEPCAISIEVLGARHLPKNRGIVCPFVEIEVAGAEYDSTK
QKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVEEDMFSDQNFLAQATFPVKGLKTGYRAVPLKNNYSED
ELASLLIKIDIFPAKENGDLSPFSGTSLRERGSASGQLFHGRAREGSFESRYQQPFEDFRISQEHLDHFDSRE
RRAPRRTRVNGDNRL

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FIGURE 5773

TAAGAGTCATCACTTCTGCTGAGTAGGCAAAACAATGAACTATAACAACAGACATCATTTTCTTTCCTTAAATTC
TGAGGTTTATGCTGGAAAAATAAACCCATTTCTTTATAAACATCTAATTAAATAAAGTATCAAAGAAAAATAAGAT
AATGGAAGAAGCATCCGCCTTTTGGGGCACTATATTCTAAGGTTGGGCTTTAAGATTTTTTAACAGGAAACCCA
GGAATTTCTGAAAAACAAGGCCTTTTTCACATTACCAAGAACTCACAGCTACTCTGTGAATGCCCTAGATATTTG
ACTCAAATTTTTCACTCAATCTTATTAGGTATATTTCTGGATTATTTGAATCTACAAACCAACCCTAGAATATCA
TGCTTTCCAGTCACACCTGTGGCACAATGAGCAGTGTACGACCATGCCCCATCACAATCCAACCCTTGGTACCCT
ACATTGTGACACCTCCTAGAAAGGTATTAAAGCTGAGCCAATTAATCTATATTTTGATTTTCAGACTAAGATTAAT
AAATGCTTTTAAATAAAGTAACTTTAAAGGTATCTGAACAAAGGGATGTAAGGTTAATTCACCTCTCAAACCTGCA
ATTTCAACTCATCAGGCTTATGGATGTATGGACTAATTGCTAACCTAGTAACTCCTACAAATTTGCAGTATTCAA
AGCGTTTACCCATTTCACTGTTTTTCAAACCAATTACACAAAGCATTAAAATTTACAAGTATGATCTAACCAATT
ATCAAATAATCCCACTAACTACAAAGGGGACTGACTACTGGGTGGAACCTAACTGGCAACTGACTTTACTGAGAT
TAAGTGCCTGTTAAACATAATGATCTTTCAGCAGAAAATGCAGTATGTGCTTTTACACTTTGAATAAACTCAATT
TCAGAACAAAAAGAGGCTACTTCCATTTCCACATGACAAACATTAAAG

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FIGURE 5774

GCTGACGCCTTCGAGCGCGGCCCGGGGCCCGGAGCGGCCGGAGCAGCCCGGGTCCTGACCCCGGCCCGGGCTCCCG
CTCCGGGGCTCTGCCGGCGGGCGGGCGAGCGCGGCCGGTCCGGGCCGGGGGGATGTCCTCGGCGGACGCGCTGCGA
GGATCTGGATGAGCTGCACTACCAGGACACAGATTAGATGTGCCGGAGCAGAGGGATAGCAAGTGCAAGGTCAA
ATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAGGCAGTTTGACAGCAGGACTGGAAGTTCCTGGC
CAGCCACTTCCCTAACCGCACTGACCAGCAATGCCAGTACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTCAA
GGGGCCATGGACCAAAGAGGAAGACCAAAAAGTCATCGAGCTGGTTAAGAAGTATGGCACAAGCAGTGACACT
GATTGCCAAGCACCTGAAGGGCCGGCTGGGGGAAGCAGTGCCGTGAACGCTGGCACAACCACCTCAACCCTGAGGT
GAAGAAGTCTTGCTGGACCGAGGAGGAGGACCGCATCATCTGCGAGGCCCACAAGGTGCTGGGCAACCGCTGGGC
CGAGATCGCCAAGATGTTGCCAGGGAGGACAGACAATGCTGTGAAGAATCACTGGAACTCTACCATCAAAAGGAA
GGTGGACACAGGAGGCTTCTTGAGCGAGTCCAAAGACTGCAAGCCCCAGTGTAAGTCTGACCAACTGGCCCTCCGTCCTCC
TACCATAAAGGAGGAGGAAAACAGTGAGGAGGAAGTTCAGCAGCCACCACATCGAAGGAACAGGAGCCCATCGG
TACAGATCTGGACGCAGTGCGAACACCAGAGCCCTTGAGGAATTCCCGAAGCGTGAGGACCAGGAAGGCTCCCC
ACCAGAAACGAGCCTGCCTTACAAGTGGGTGGTGGAGGCAGCTAACCTCCTCATCCCCGCTGTGGGTTCTAGCCT
CTCTGAAGCCCTGGACTTGATCGAGTCGGACCCTGATGCTTGGTGTGACCTGAGTAAATTTGACCTCCCTGAGGA
ACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGCAGCTGCAAGCGTCACATCAGCAGCAAGTCTGCCACC
CCGCCAGCCTTCCGCCCTGGTGGCCAGTGTGACCGAGTACCGCCTGGATGGCCACACCATCTCAGACCTGAGCCG
GAGCAGCCGGGGCGAGCTGATCCCCATCTCCCCCAGCACTGAAGTCGGGGGCTCTGGCATTGGCACACCGCCCTC
TGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTGTCCCTGTCACTGAGAATAGCACCAGTCTGTCTTCTCT
GGATTCTGTAAACAGCCTCAGCCCCAAGAGCACACCTGTAAAGACCCTGCCCTTCTCGCCCTCCAGTTTCTGAA
CTTCTGGAACAAACAGGACACATTGGAGCTGGAGAGCCCTCGCTGACATCCACCCAGTGTGCAGCCAGAAGGT
GGTGGTCACCACACCACTGCACCGGGACAAGACACCCCTGCACCAGAAACATGCTGCGTTTGTAACCCAGATCA
GAAGTACTCCATGGACAACACTCCCCACACGCCAACCCCGTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAA
GCCCCTGCCACAGACCCCGCACCTGGAGGAGGACTTGAAGGAGGTGCTGCGTTCTGAGGCTGGCATCGAACTCAT
CATCGAGGACGACATCAGGCCCCGAGAAGCAGAAGAGGAAGCCTGGGCTGCGGCGGAGCCCCATCAAGAAAGTCCG
GAAGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCCCAAGTCTCTATCCTT
GCCGACAACCTGCCCTTCAAACCTCTTCCAGCCTCACCTGTGAGGTATCAAAGAAGACAACAGCTTGCTCAACCA
GGGCTTCTTGAGGCCAAGCCCGAGAAGGCAGCAGTGGCCAGAAGCCCCGAAGCCACTTCACGACACCTGCCCC
TATGTCCAGTGCCTGGAAGACGGTGGCCTGCGGGGGGACCAGGGACCAGCTTTTTCATGCAGGAGAAAGCCCGGCA
GCTCCTGGGCGCCTGAAGCCAGCCACACATCTCGGACCCTCATCTTGTCTCTGAGGTGTTGAGGGTGTACAGAG
CCCATTCTCATGTTTACAGGGGTTGTGGGGGCGAGGGGGTCTGTGAATCTGAGAGTCATTACAGGTGACCTCCTG
CAGGGAGCCTTCTGCCACCAGCCCTCCCCAGACTCTCAGGTGGAGGCAACAGGGCCATGTGCTGCCCTGTTGCC
GAGCCCAGCTGTGGGCGGCTCCTGGTGCTAACAACAAAGTTCCACTTCCAGGTCTGCCTGGTTCCCTCCCCAAGG
CCACAGGGAGCTCCGTGAGCTTCTCCCAAGCCCACGTCAGGCCTGGCCTCATCTCAGACCCTGCTTAGGATGGGG
GATGTGGCCAGGGGTGCTCCTGTGCTCACCTCTCTTGGTGCAATTTTTTTGGAAGAATAAAATTGCCTCTCTCTT
TG

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FIGURE 5775

MSRRTRCEDLDELHYQDTS DVP EQRDSKCKVKWTHEEDEQLRALVRQFGQDQWKFLASHFPNRTDQQCQYRWLR
VLNPD LVKGPWTKEEDQKVIELVKKYGTKQWTLIAKHLKGRLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAH
KVLGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVD TGGFLSESKDCKPPVYLLLELEDKDGLQSAQPT EGQGSLL
TNWPSVPPTIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQEGSPPETSLPYKWWVEAANLL
IPAVGSSLSEALDLIESDPDAWCDLSKFDLP EEP SAEDSINNSLVQLQASHQQQVLPPRQPSALVPSVTEYRLDG
HTISDL SRSSRGELIPISPSTEVGGSGIGTPPSVLKRQRKRVALSPVTENSTSLSF LDSCNSLTPKSTPVKTLP
FSPSQFLNFWNKQDTLELESPSLTSTPVCSQKVVT TPLHRDKTPLHQKHA AFVTPDQKYSMDNTPHTPTPFKNA
LEKYGPLKPLPQTPHLEEDLKEVLRSEAGIELI IEDDIRPEKQKRKPLRRSPIKKVRKSLALDIVDEDVKLMMS
TLPKSLSLPTTAPSNSSSLTSGIKEDNSLLNQGF LQAKPEKA AVAQKPRSHFTTPAPMSSAWKTVACGGTRDQL
FMQEKARQLLGR LKPSHTSRTLILS

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FIGURE 5776

ACCGCTGGCCCCAGGGAAAGCCGAGCGGCCACCGAGCCGGCAGAGACCCACCGAGCGGCGGGCGGAGGGAGCAGCG
CCGGGGCGCACGAGGGCACCATGGCCCAGACGCCCGCCTTCGACAAGCCCCAAAGTGAAACTGCATGTCCACCTAG
ACGGATCCATCAAGCCTGAAACCATCTTATACTATGGCAGGAGGAGAGGGGATCGCCCTCCCAGCTAACACAGCAG
AGGGGCTGCTGAACGTCATTGGCATGGACAAGCCGCTCACCCCTTCCAGACTTCCTGGCCAAGTTTGACTACTACA
TGCTTGCTATCGCGGGCTGCCGGGAGGCTATCAAAAGGATCGCCTATGAGTTTGTAAGATGAAGGCCAAAGAGG
GCGTGGTGTATGTGGAGGTGCGGTACAGTCCGCACCTGCTGGCCAACCTCCAAAGTGGAGCCAATCCCCTGGAACC
AGGCTGAAGGGGACCTCACCCCAGACGAGGTGGTGGCCCTAGTGGGCCAGGGCCTGCAGGAGGGGGAGCGAGACT
TCGGGGTCAAGGCCCCGGTCCATCCTGTGCTGCATGCGCCACCAGCCCCAACTGGTCCCCCAAGGTGGTGGAGCTGT
GTAAGAAGTACCAGCAGCAGACCGTGGTAGCCATTGACCTGGGTGGAGATGAGACCATCCCAGGAAGCAGCCTCT
TGCTGGACATGTCCAGGCCTACCAGGAGGCTGTGAAGAGCGGCATTACCGTACTGTCCACGCCGGGGAGGTGG
GCTCGGCCGAAGTAGTAAAAGAGGCTGTGGACATACTCAAGACAGAGCGGCTGGGACACGGCTACCACACCCTGG
AAGACCAGGCCCTTTATAACAGGCTGCGGCAGGAAAACATGCACTTCGAGATCTGCCCCCTGGTCCAGCTACCTCA
CTGGTGCCTGGAAGCCGGACACGGAGCATGCAGTCATTGCGCTCAAAAATGACCAGGCTAACTACTCGCTCAACA
CAGATGACCCGCTCATCTTCAAGTCCACCCTGGACACTGATTACCAGATGACCAAACGGGACATGGGCTTTACTG
AAGAGGAGTTTAAAAGGCTGAACATCAATGCGGCCAAATCTAGTTTCTCCAGAAAGATGAAAAGAGGGAGCTTC
TCGACCTGCTCTATAAAGCCTATGGGATGCCACCTTCAGCCTCTGCAGGGCAGAACCTCTGAAGACGCCACTCCT
CCAAGCCTTCACCCTGTGGAGTCACCCCAACTCTGTGGGGCTGAGCAACATTTTACATTTATTCCTTCCAAGAA
GACCATGATCTCAATAGTCAGTTACTGATGCTCCTGAACCCTATGTGTCCATTTCTGCACACACGTATACCTCGG
CATGGCCGCGTCACTTCTCTGATTATGTGCCCTGGCCAGGGACCAGCGCCCTTGACATGGGCATGGTTGAATCT
GAAACCTCCTTCTGTGGCAACTTGTAAGTAAATCTGGTGTCAATAAAGAAGCCCATGGCTGGTGGCATGC

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FIGURE 5777

MAQTPAFDKPKVKLHVHLDGSIKPETILYYGRRRGIALPANTAEGLLNVIGMDKPLTLPDFLAKFDYYMPAAGC
REAIKRIAYEFVEMKAKEGVVYVEVRYSPHLLANSKVEPIPNQAEGDLTPDEVVALVGQGLQEGERDFGVKARS
ILCCMRHQPNWSPKVVELCKKYQQQTVVAIDLAGEDETIPGSSLLPGHVQAYQEAVKSGIHRTVHAGEVGSAEVVK
EAVDILKTERLGHGHTLEDQALYNRLRQENMHFEICPWSSYLTGAWKPDTEHAVIRLKNDQANYSLNTDDPLIF
KSTLDTDYQMTKRDMGFTEEEFKRLNINAAKSSFLPEDEKRELLDLYKAYGMPPSASAGQNL

6256/6881
FIGURE 5778

GTTTCGCTGTTGGGCGGAGATATTCGCCGCCGGCGCTTGCGCCCGGAAGGTGTGCCGCACCACACGGGGGAGGAAG
GAAGGAGCTCCCAACTCGCCGGCCTGGCCACGGGATGGCCCCAAATTCCCAGACTCTGTGGAGGAGCTCCGCGC
CGCCGGCAATGAGAGTTTCCGCAACGGCCAGTACGCCGAGGCCTCCGCGCTCTACGGCCGCGCGCTGCGGGTGCT
GCAGGCGCAAGGTTCTTCAGACCCAGAAGAAGAAAGTGTTCTCTACTCCAACCGAGCAGCATGTCACTTGAAGGA
TGGAAACTGCAGAGACTGCATCAAAGATTGCACCTCAGCACTGGCCTTGTTCCCTTCAGCATTAAGCCCCGTGCT
GCGGCGAGCATCTGCTTATGAGGCTCTGGAGAAGTACCCTATGGCCTATGTTGACTATAAGACTGTGCTGCAGAT
TGATGATAATGTGACGTACGCCGTAGAAGGCATCAACAGAATGACCAGAGCTCTCATGGACTCGCTTGGGCCTGA
GTGGCGCCTGAAGCTGCCCTCAATCCCCTTGTTGCCTGTTTCAGCTCAGAAGAGGTGGAATTCCTTGCCCTTCGGA
GAACCACAAAGAGATGGCTAAAAGCAAATCCAAAGAAACCACAGCTACAAAGAACAGAGTGCCTTCTGCTGGGGA
TGTGGAGAAAGCCAGAGTTCTGAAGGAAGAAGGCAATGAGCTTGTAAGAAGGGAAACCATAAGAAAGCTATTGA
GAAGTACAGTGAAAGCCTCTTGTGTAGTAACCTGGAATCTGCCACGTACAGCAACAGAGCACTCTGCTATTTGGT
CCTGAAGCAGTACACAGAAGCAGTGAAGGACTGCACAGAAGCCCTCAAGCTGGATGGAAGAACGTGAAGGCATT
CTACAGACGGGCTCAAGCCCACAAAGCACTCAAGGACTATAAATCCAGCTTTGCAGACATCAGCAACCTCCTACA
GATTGAGCCTAGGAATGGTCTGCACAGAAGTTGCGGCAGGAAGTGAAGCAGAACCTACACTAAAAACCCAACAG
GGCAACTGGAACCCCTGCCTGACCTTACCCAGAGAAGCCATGGGCCACCTGCTCTGTGCCCCGCTCCTGAAACCCA
GCATGCCCCAAGTGAGCTCTGAAGCCCCCTCCTCAATCCCTTGATGGCCTCCACCCCTGTAAGAGGCTTTGCTTG
TTCAAATTAAGCTCAGTGAGTCAAAACACAGACATGGTTGTTGCACCAGAAAGGTCCCCACTAGAGCTAAGCGTG
AAGCTGAAGCTCTGTCCCTATTCCCCCAGCCCAGCTAGCTGATCACACCAACAGATCCTCATCAGCAAAGCATT
GGCTTTGTCTGCCCCAAGTGGGCTGCAGACTGAGTGCTGCCCTTGTTAGCTTTCCCCAGACCCCAACTCACTGCAGT
TCATCTGAACAACCTGAGCTCCTGGGCCGGGGTGGAAGGAGGGGGATAAACCTAAGGCCCTGATCCAAAGCAGCC
TGTTGAGCTGGTTCTCCAGGGCTGCAGTCTCTCCAGGTGTACAGCTGCTGTCCCTGCCCTGTCTGTCTTGCAC
AGTCTCCTATGTCTGAGCCCCAGTGCCTTCTGTTCCGGGCCCTCCTTTGGTGGGAAGGCAGAGCCCTGACCCTTGA
ATGGTTGTCTTGAAGTCTGTGCTGCTGCCTTCTGCAGAGAGGCACCTAAGCTGTTTAAAGAGCCCAGTGATTGTG
GCTGCTCCTCCTAGAGGTGGGAGGGGGCAAGAGGCCTCCTTGGTGAGTGTCCATGCTTTCTGGGCAGGGACTTGG
TTTTTTGTTCCAACAGTGGCCTTCTCCGGGCTTCATAGTTCTTTGTAATATGTTGAAGTTAATTGAATTGACTG
ATTTTGTGAACTGTGTGTTTAAAGCTGTTGCATTAAAAAGCTTTCTTCTACATCAATATCTGCTGTGCTTTTATT
TATGCCTTTTTCAGCTTTGCACCTGGAAGTCTGTAGTAATAATAAAAGTTATTGCTTATTGGGCATT

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FIGURE 5779

CAATACAGCTAAGGAATTATCCCTTGTAATACCACAGACCCGCCCTGGAGCCAGGCCAAGCTGGACTGCATAAA
GATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCAATGAGGGCCAGCAGCTTCTTGATCGTGGTGG
TGTTCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCCTGTTAAAGGTCAAGACACTGTCA
AAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAG
CGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGCCTGGCTCCTGCCCCATTATCTTGATCCGGTGCGCCATGT
TGAATCCCCCTAACCGCTGCTTGAAAGATACTGACTGCCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTGCGGGA
TGGCCTGTTTCGTTCCCCAGTGAAGGGAGCCGGTCCTTGCTGCACCTGTGCCGTCCCCAGAGCTACAGGCCCCAT
CTGGTCCTAAGTCCCTGCTGCCCTTCCCCTTCCCACACTGTCCATTCTTCTCCCATTCAGGATGCCCACGGCTG
GAGCTGCCTCTCTCATCCACTTTCCAATAAA

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FIGURE 5780

MRASSFLIVVVFLIAGTLVLEAAVTGVPVKGQDTVKG RVPFNGQDPVKGQVSVKGQDKVKAQEPVKGPVSTKPGS
CPIILIRCAMLNPPNRCLKDTCPGIKKCEGSCGMACFVPQ

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FIGURE 5781

CAGAGTCACTCCTGCCTTCACCAATGAAGTCCAGCGGCCTCTTCCCCTTCCTGGTGCTGCTTGCCCTGGGAACTCT
GGCACCTTGGGCTGTGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCCAGTG
CCTTAGATACAAGAAACCTGAGTGCCAGAGTGACTGGCAGTGTCAGGGAAGAAGAGATGTTGTCCTGACACTTG
TGGCATCAAATGCCTGGATCCTGTTGACACCCCAAACCCAACAAGGAGGAAGCCTGGGAAGTGCCAGTGACTTA
TGGCCAATGTTTGATGCTTAACCCCCCAATTTCTGTGAGATGGATGGCCAGTGCAAGCGTGACTTGAAGTGTTG
CATGGGCATGTGTGGGAAATCCTGCGTTTCCCCTGTGAAAGCTTGATTTCCTGCCATATGGAGGAGGCTCTGGAGT
CCTGCTCTGTGTGGTCCAGGTCCTTTCCACCCTGAGACTTGGCTCCACCACTGATATCCTCCTTTGGGGAAAGGC
TTGGCACACAGCAGGCTTTCAAGAAGTGCCAGTTGATCAATGAATAAATAAACGAGCCTATTTCTCTTTGCAC

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FIGURE 5782

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPFKKSAQCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDP
VDTNPTRRKPGKCPVTYQCLMLNPPNFCEMDGQCKRDLKCCMGKSCVSPVKA

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FIGURE 5783

GCGGCTATGCCGCTCTGGCTCTGCTCGTCCTGTTGCTCCTGGGGCCCCGGCGGCTGGTGCCTTGCAGAACCCCCACG
CGACACCTGCGGGAGGAACTTGTTCATCACCCCGCTGCCTTCCGGGGACGTAGCCGCCACATTCCAGTTCCGCACG
CGCTGGGATTTCGGAGCTTCAGCGGGAAGGAGTGTCCATTACAGGCTCTTTCCCAAAGCCCTGGGGCAGCTGATC
TCCAAGTATTCTCTACGGGAGCTGCACCTGTCATTACACAAGGCTTTTGGAGGACCCGATACTGGGGGCCACCC
TTCCTGCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTTCCAAGACACTGTCACTGATGTGGATAAATCTTGG
AAGGAGCTCAGTAATGTCTCTCAGGGATCTTCTGCGCCTCTCTCAACTTCATCGACTCCACCAACACAGTCACT
CCCCTGCCTCCTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCTGCCG
CGGGAGGTGGTCTGCACCGAAAACCTCACCCCTGGAAGAAGCTCTTGCCCTGTAGTTCCAAGGCAGGCCTCTCT
GTGCTGCTGAAGGCAGATCGCTTGTTCACACCAGCTACCACTCCCAGGCAGTGCATATCCGCCCTGTTTGCAGA
AATGCACGCTGTACTAGCATCTCCTGGGAGCTGAGGCAGACCCTGTGAGTTGTATTTGATGCCTTCATCAGGGG
CAGGGAAAGAAAGACTGGTCCCTCTTCCGGATGTTCTCCGAACCTCACGGAGCCCTGCCCCCTGGCTTCAGAG
AGCCGAGTCTATGTGGACATCACCACTACAACCAGGACAACGAGACATTAGAGGTGCACCCACCCCGACCACT
ACATATCAGGACGTATCTAGGCACTCGGAAGACCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAAC
AACTCTCGAAACCTCAACATCCAGCTCAAGTGGAAGAGACCCCAAGAGAATGAGGCCCCCCCCAGTGCCCTTCTCTG
CATGCCCAGCGGTACGTGAGTGGCTATGGGCTGCAGAAGGGGGAGCTGAGCACACTGCTGTACAACACCCACCCA
TACCGGGCCTTCCCGGTGCTGCTGCTGGACACCGTACCCTGGTATCTGCGGCTGTATGTGCACACCCCTCACCATC
ACCTCCAAGGGCAAGGAGAACAACCAAGTTACATCCACTACCAGCCTGCCAGGACCGGCTGCAACCCACCTC
CTGGAGATGCTGATTGAGCTGCCGCCAACTCAGTCACCAAGGTTTCCATCCAGTTTGAGCGGGCGCTGCTGAAG
TGGACCGAGTACACGCCAGATCCTAACCATGGCTTCTATGTGAGCCATCTGTCCTCAGCGCCCTTGTGCCCAGC
ATGGTAGCAGCCAAGCCAGTGGACTGGGAAGAGAGTCCCTCTTCAACAGCCTGTTCCAGTCTCTGATGGCTCT
AACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCGACACCGGACTTCAGCATGCCCTACAAC
GTGATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTACGGCTCCTTCTACAATCTCCTCACCCGAACCTTCCAC
ATCAGGAGCCCCGCACAGGTGGCCTGGCCAAGCGGCTGGCCAACCTTATCCGGCGCGCCGAGGTGTCCCCCA
CTCTGATTCTTGCCCTTTCCAGCAGCTGCAGCTGCCGTTTCTCTCTGGGGAGGGGAGCCCAAGGGCTGTTTCTGC
CACTTGCTCTCCTCAGAGTTGGCTTTTGAACCAAAGTGCCCTGGACCAGGTGAGGGCCTACAGCTGTGTTGTCCA
GTACAGGAGCCACGAGCCAAATGTGGCATTGAAATTTGAATTAACCTAGAAATTCATTTCTCACCTGTAGTGGC
CACCTCTATATTGAGGTGCTCAATAAGCAAAAGTGGTCGGTGGCTGCTGTATTGGACAGCACAGAAAAAGATTTC
CATCACACAGAAAGGTGGCTGGCAGCACTGGCCAAGGTGATGGGGTGTGCTACACAGTGTATGTCACTGTGTA
GTGGATGGAGTTTACTGTTTGTGGAATAAAAAACGGCTGTTTCCGTGCAACACAAAAA

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FIGURE 5784

MPSGSARPVAPGARRLVPCRTPTRHLREELVITPLPSGDVAATFQFRTRWDSELQREGVSHYRLFPKALGQLISK
YSLRELHLSFTQGFWRTRYWGPPFLQAPSGAELWVWFQDTVTDVDSWKELSNVLSGIFCASLNFIDSTNTVTPT
ASFKPLGLANDTDHYFLRYAVLPREVVCTENLTPWKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIRPVCRNA
RCTSISWELRQTLVVFDFAFITGQGKKDWSLFRMFSRTLTEPCPLASESRVYVDITTYNQDNETLEVHPPPTTTY
QDVILGTRKTYAIYDLLDTAMINNSRNLNIQLKWKRPPENEAPPVPFLHAQRYVSGYGLQKGEISTLLYNTHPYR
AFPVLLLDTPWPYLRLYVHTLTITISKGKENKPSYIHYQPAQDRLQPHLLEMLIQLPANSVTKVSIQFERALLKWT
EYTPDPNHGFYVSPSVLSALVPSMVAAPVDWEESPLFNSLFPVSDGSNYFVRLYTEPLLVLNLPDPFSMPYNVI
CLTCTVVAVCYGSFYNNLLTRTFHIEEPRTGGLAKRLANLIRRARGVPPL

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FIGURE 5785

GGCACGAGCGAGTTCTGTCTCTCTGCCAACGCCGCCCGGATGGCTTCCCAAACCGCGACCCAGCCGCCACTAG
CGTCGCCGCCGCCCGTAAAGGAGCTGAGCCGAGCGGGGGCGCCGCCCGGGGTCCGGTGGGCAAAAGGCTACAGCA
GGAGCTGATGACCCCTCATGATGTCTGGCGATAAAGGGATTTCTGCCTTCCCTGAATCAGACAACCTTTTCAAATG
GGTAGGGACCATCCATGGAGCAGCTGGAACAGTATATGAAGACCTGAGGTATAAGCTCTCGCTAGAGTTCCTCCAG
TGGCTACCCCTTACAATGCGCCACAGTGAAGTTCCTCAGCCCTGCTATCACCCCAACGTGGACACCCAGGGTAA
CATATGCCTGGACATCCTGAAGGAAAAAGTGGTCTGCCCTGTATGATGTCAGGACCATTCTGCTCTCCATCCAGAG
CCTTCTAGGAGAACCCAACATTGATAGTCCCTTGAACACACATGCTGCCGAGCTCTGGAAAAACCCACAGCTTT
TAAGAAGTACCTGCAAGAAACCTACTCAAAGCAGGTCACCAGCCAGGAGCCCTTGACCCAGGCTGCCCAGCCTGTC
CTTGTCGTCGCTTTTTTAATTTTTCCTTAGATGGTCTGTCCTTTTTGTGATTTCTGTATAGGACTCTTTATCTTGA
GCTGTGGTATTTTTGTTTTGTTTTGTCTTTTAAATTAAGCCTCGGTTGAGCCCTTGTATATTAAATAAATGCAT
TTTTGTCCTTTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5786

MASQNRDPAATSVAAARKGAEP SGGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAGTVYE
DLRYKLSLEFP SGYPYNAPT VKFLTPCYHPNVD TQGNICLDILKEKWSALYDVRTILLSIQSLLGEPNIDSPLNT
HAAELWKNPTAFKKYLQETYSKQVTSQEP

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FIGURE 5787

GAACCCGGCCGACCTCCATGGGCTGCGGGGGGCTGCACCCGGACCCCTGGGGCGCGGCGCGCCCTGAATGCACC
GTGGGACGCAGGAGGGTGCCATGGCCTCCCGGCTCCTGCACCCGGCTGCGGCACGCCTTGGCCGGCGACGGCCCCG
GGGAGGCGGCGGCCAGTCCAGAGGCCGAGCAGTTTCCGGAGAGCTCAGAGCTGGAGGACGACGACGCCGAGGGCC
TGTCTCCCGACTCAGCGGCACCCTCAGCTTACCAGCGCCGAGGACGACGAGGACGACGAGGACGAGGACGACG
AGGAGGCTGGCCCTGACCAGCTGCCCCCTCGGGGATGGGACGTGAGGAGAAGACGCAGAACGGAGCCCCCACCTG
ATGGGCAGTGGGGCAGTCAGCTCCTGGCGCGGCAGCTGCAGGATTTCTGGAAGAAGTCCCGGAACACCTTGGCAC
CCCAGCGGCTGCTCTTCGAAGTGACCAGCGCTAACGTTGTCAAGGACCCGCCCTCCAAGTACGTGCTCTACACCC
TCGCCGTGATCGGCCCAGGACCGCCAGATTGCCAGCCAGCCCAGATCTCTCGCCGTTACTCGGACTTTGAGCGGC
TGCACCGAAACCTGCAGCGGCAATTCCGGGGCCCAATGGCTGCCATCTCCTTCCCCCGTAAGCGGCTGCGCCGGA
ATTTTACTGCAGAGACCATTGCCCGCCGTAGCCGGGCCCTTTGAGCAGTTTTTTGGGTCACCTGCAGGCAGTGCCTG
AGCTGCGCCATGCCCCGGACCTGCAGGACTTCTTCGTGCTGCCGGAGCTGCGGCGGGCACAGAGCCTCACCTGTA
CTGGCCTCTATCGTGAGGCTCTGGCACTCTGGGCAATGCCTGGCAGCTGCAAGCCCAGCTGGGCACCCCCCTCTG
GCCCAGACCGCCCCCTGCTGACCCTGGCTGGGCTGGCCGTGTGCCACCAGGAGCTGGAAGACCCTGGAGAGGCCC
GGGCATGCTGTGAGAAGGCCCTGCAGCTGCTTGGGGACAAGAGCCTCCACCCTTTGCTGGCACCCCTTTCTGGAGG
CCCATGTCCGGCTCTCCTGGCGCCTGGGCCTGGACAAACGTCAATCAGAGGCTCGGCTCCAAGCCCTGCAGGAGG
CAGGCCTTACCCCCACACCACCCCCCAGTCTCAAAGAATTGCTCATCAAGGAGGTGCTGGACTTAACCCTTGCTTA
GATTTAAGGCCACTGTGAGGAGAGGGGTTGCCCCAGAAGGCAGGGGAAGGACCTGATGAGAACAGAATAGCTGGG
AGGCTGCAGAGGGTGCTGGGAGCCCCTAGAAGTTCCAAAAGAGAATGTGAAGCAGATCAAGGAACTTCTGTTGA
GCTAGGCTCAGGGTGAGCTTTGGCTGGGGTTGCCCTTGTGTAGTACAGGGAAGTCTGACACAGCCTCTCCAGCCT
ATAAACAGCCGGGGGGCTGTGGCACAGGTTGGGGCAATGTTCCCTTGTGTTGGTGGGCCCCCAAGCTGGCAAGGCCT
CTTGGCTGAAGGCCAGGGACTCTGCCCCCTGGAGTCCTGGAGTTAAGGGATGAAGGCAAGGCTGCAGGTCTGGCCC
AGGGGAATTAAAAGCCAGCCACTCC

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FIGURE 5788

MHRGTQEGAMASRLHRLRHALAGDGPGEAAASPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDEDDEDE
DDEEAGPDQLPLGDTSGEDAERSPPPDGQWGSQLLARQLQDFWKKSRNTLAPQRLLEFVTSANVVKDPPSKYVL
YTLAVIGPGPPDCQPAQISRRYSDFERLHRNLQRQFRGPMAAISFPRKRLRRNFTAETIARRSRAFEQFLGHLQA
VPELRHAPDLQDFFVLPFLRRRAQSLTCTGLYREALALWANAWQLQAQLGTPSGPDRPLLTLAGLAVCHQELEDPG
EARACCEKALQLLGDKSLHPLLAPFLEAHVRLSWRLGLDKRQSEARLQALQEAGLTPTFPFSLKELLIKEVLD

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FIGURE 5789

GTGGCCGCGTCGCCCGGATCCCCTGAGCTGCCC GCCATCCCACGTGACCGCGCGCCCCCAGCTCCACCGCTG
AGCCCGCTCGCCATGGCCCTCTTCGGGGCCCTCTTCCTAGCGCTGCTGGCAGGCGCACATGCAGAGTTCCCAGGC
TGCAAGATCCGCGTCACCTCCAAGGCGCTGGAGCTGGTGAAGCAGGAGGGGCTGCGCTTTCTGGAGCAAGAGCTG
GAGACTATCACCATTCCGGACCTGCGGGGCAAAGAAGGCCACTTCTACTACAACATCTCTGAGGTGAAGGTCACA
GAGCTGCAACTGACATCTTCCGAGCTCGATTTCAGCCACAGCAGGAGCTGATGCTTCAAATCACCAATGCCTCC
TTGGGGCTGCGCTTCCGGAGACAGCTGCTCTACTGGTTCTTCTATGATGGGGGCTACATCAACGCCTCAGCTGAG
GGTGTGTCCATCCGCACTGGTCTGGAGCTCTCCCGGGATCCCGCTGGACGGATGAAAGTGTCCAATGTCTCCTGC
CAGGCCCTCTGTCTCCAGAATGCACGCGGCCCTTCGGGGGAACCTTCAAGAAGGTGTATGATTTTCTCTCCACGTTT
ATCACCTCAGGGATGCGCTTCCTCCTCAACCAGCAGATCTGCCCTGTCTCTACCACGCAGGGACGGTCTGCTC
AACTCCCTCCTGGACACCGTGCCTGTGCGCAGTTCTGTGGACGAGCTTGTGGCATTGACTATTCCCTCATGAAG
GATCCTGTGGCTTCCACCAGCAACCTGGACATGGACTTCCGGGGGGCCTTCTTCCCCCTGACTGAGAGGAACTGG
AGCCTCCCCAACCAGGCGAGTGGAGCCCCAGCTGCAGGAGGAAGAGCGGATGGTGTATGTGGCCTTCTCTGAGTTC
TTCTTCGACTCTGCCATGGAGAGCTACTTCCGGGCGGGGGCCCTGCAGCTGTTGCTGGTGGGGACAAGGTGCCC
CACGACCTGGACATGCTGCTGAGGGCCACCTACTTTGGGAGCATTGTCCTGCTGAGCCCAGCAGTGATTGACTCC
CCATTGAAGCTGGAGCTGCGGGTCTGGCCCCACCGCGCTGCACCATCAAGCCCTCTGGCACCACCATCTCTGTC
ACTGCTAGCGTCACCATTGCCCTGGTCCCACCAGACCAGCCTGAGGTCCAGCTGTCCAGCATGACTATGGACGCC
CGTCTCAGCGCCAAGATGGCTCTCCGGGGGAAGGCCCTGCGCACGCAGCTGGACCTGCGCAGGTTCCGAATCTAT
TCCAACCATTCTGCACTGGAGTCGCTGGCTCTGATCCCATTACAGGCCCTCTGAAGACCATGCTGCAGATTGGG
GTGATGCCCATGCTCAATGAGCGGACCTGGCGTGGGGTGAGATCCCACTACCTGAGGGCATCAACTTTGTGCAT
GAGGTGGTGACGAACCATGCGGGATTCTCACCATCGGGGCTGATCTCCACTTTGCCAAAGGGCTGCGAGAGGTG
ATTGAGAAGAACCGGCCTGCTGATGTGAGGGCGTCCACTGCCCCCACACCGTCCACAGCAGCTGTCTAGAGCCCTC
AATCCCCAAGCTGGCAGCTGTCAATCAGGACCCCAACCCCTCTCAGCCCCCTTTTTCCACATTATAGCCTGTA
GTGCCCCCTCTAACCCCCAGTGCCACAGAGAAGACGGGATTTGAAGCTGTACCCAATTTAATTCCATAATCAATC
TATCAATTACAGTCCGTCCACCACC

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FIGURE 5790

MALFGALFLALLAGAHAEFPGCKIRVTSKALELVKQEGLEFLEQELETITITIPDLRGKEGHFYNNISEVKVTELQL
TSSELDQFQQEMLQITNASLGLRFRRLLYWFFYDGGYINASAEGVSIRTGLELSRDPAGRMKVSNNVSCQASV
SRMHAAFGGTFKKVYDFLSTFITSGMRFLNQQICPVLYHAGTVLLNSLLDTVPVRSSVDELVGIDYSLMKDPVA
STSNLDMDFRGAFFPLTERNWSLPNRAVEPQLQEEERMVYVAFSEFFFDSESYFRAGALQLLLVGDKVPHDLD
MLLRATYFGSIVLLSPAVIDSPLKLELRVLAPPRCTIKPSGTTISVTASVTIALVPPDQPEVQLSSMTMDARLSA
KMALRGKALRTQLDLRRFRIYSNHSALSLALIPLQAPLKTMLQIGVMPMLNERTWRGVQIPLPEGINFVHEVVT
NHAGFLTIGADLHFAKGLREVIEKNRPADVRSTAPTPTAAV

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FIGURE 5791

AGACACCTCTGCCCTCACCATGAGCCTCTGGCAGCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCAGCAGGCAGCT
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGAGAGTGCAGAAATCTCTGGGGCC
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT
GCGAACCCACGGTGCGGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA
CAACATCACCTATTGGATCCAAACTACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCTTTGCCGCGC
CTTCGCACTGTGGAGCGCGGTGACGCCGCTACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA
GTTTGGTGTCGCGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCCTTTCTCTC
TGGCCCCGGCATTGAGGAGACGCCCATTTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC
AACTCGGTTTGGAAACGCAGATGGCGCGGCCTGCCACTTCCCCTTCATCTTCGAGGGCCGCTCCTACTCTGCCTG
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGCAGTACCACGGCCAACTACGACACCGACGACCGGTTTGG
CTTCTGCCCCAGCGAGAGACTCTACACCCGGGACGGCAATGCTGATGGGAAACCTGCCAGTTTCCATTCTCTT
CCAAGGCCAATCTACTCCGCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCCACCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG
GGAGCTGTGCGTCTTCCCCTTCACTTTCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG
GCGCCTCTGGTGCGCTACCACCTCGAACTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCCGACCAAGGATACAG
TTTGTTCCTCGTGCGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCTCAGTGCCGGAGGCGCTCAT
GTACCCTATGTACCGCTTCACTGAGGGGCCCCCTTGCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG
TCCTCGCCCTGAACCTGAGCCACGGCCTCCAACCACCACACCGCAGCCCACGGCTCCCCCGACGGTCTGCCC
CACCAGACCCCCACTGTCCACCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC
AGGTCCCCCACTGCTGGCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA
CATCTTCGACGCCATCGCGGAGATTGGGAACCAGCTGTATTTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA
GGGAGGGGGAGCCGGCCGAGGGCCCCCTTCTTATCGCCGACAAGTGGCCCGCGCTGCCCCGCAAGCTGGACTC
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTCTGCGGCCAGGTGTGGGTGTACACAGGCGCGTC
GGTGCTGGGCCCCGAGGCGTCTGGACAAGCTGGGCCTGGGAGCCGACGTGGCCAGGTGACCGGGGCCCTCCGGAG
TGGCAGGGGGAAGATGCTGCTGTTTCAGCGGGCGGCGCCTCTGGAGGTTTCGACGTGAAGGCGCAGATGGTGGATCC
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCCGGGGTGCCCTTGGACACGCACGACGTCTTCCAGTACCGAGA
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGAGTGAGTTGAACCAGGTGGACCAAGT
GGGCTACGTGACCTATGACATCCTGCAGTGCCCTGAGGACTAGGGCTCCCGTCTGCTTTGCAGTGCCATGTAAA
TCCCCACTGGGACCAACCTGGGGAAGGAGCCAGTTTGCCGGATACAAACTGGTATTCTGTTCTGGAGGAAAGGG
AGGAGTGGAGGTGGGCTGGGCCCTCTCTTCTCACCTTTGTTTTTTGTTGGAGTGTTCATAAACTTGGATTCT
CTAACCTTT

6270/6881
FIGURE 5792

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEYLYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYFPDGDGKLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA
DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYS
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTPQPTAPPTVCPTGPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPPLSPVDDACNVNIFDAIA
EIGNQLYLFDGKYWRFSEGRGSRPQGPFLIADKWPALPRKLDVFEELSKKLFFFSGRQVWVYT GASVLGPRR
LDKLGADVAQVTGALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVGYVTYDILQCPED

6271/6881
FIGURE 5793

ACTTCCGGTGGGGAGATTCCGGCCTGGAGCTCCCAGGGCCGAGCAGACCTTGGGACCTGTGAGCGCTGCATCCAA
TTAACCATGGGAAGGGTCAGCACCAGCCACCAGCCCCCTTAGGTGAGGACTCTGCCTGGGGCTCTGCTGATGGTTC
CGAATCATGGAGCTGCAGAGAGCTCCTCCAGCCTGGAGACGTTCTTGGTGAAAGCTGTGGTCTAACTCCACCGGC
TCTTCCTGCACATTGTATTCAAGAGGGGTGCCTGCCCCGCTGACTCAGGAGCTCCGGTGCTGCAGCCGCCACGA
ATGGGGAGGTGGGCCCTCGATGTGGCCTTTTTGTGGAAGGCGGTGTTGACCCTGGGGCTGGTGCTTCTCTACTAC
TGCTTCTCCATCGGCATCACCTTCTACAACAAGTGGCTGACAAAGAGCTTCCATTTCCCCCTCTTCATGACGATG
CTGCACCTGGCCGTGATCTTCTCTCTCCGCCCTGTCCAGGGCGCTGGTTCAGTGCTCCAGCCACAGGGCCCCGT
GTGGTGCTGAGCTGGGCCGACTACCTCAGAAGAGTGGCTCCCACAGCTCTGGCGACGGCGCTTGACGTGGGCTTG
TCCAACTGGAGCTTCCTGTATGTCACCGTCTCGCTGTACACAATGACCAAATCCTCAGCTGTCTCTTCATCTTG
ATCTTCTCTCTGATCTTCAAGCTGGAGGAGCTGCGCGCGGCACTGGTCTCTGGTGGTCTCTCTCATCGCCGGGGGT
CTCTTCATGTTACCTACAAGTCCACACAGTTCAACGTGGAGGGCTTCGCCTTGGTGCTGGGGGCCCTCGTTCATC
GGTGGCATTGCTGGACCTCAGCCAGATGCTCCTGCAGAAGGCTGAACTCGGCCTCCAGAATCCCATCGACACC
ATGTTCCACCTGCAGCCACTCATGTTCTGGGGCTCTTCCCTCTCTTTGCTGTATTTGAAGGTCTCCATTTGTCC
ACATCTGAGAAAATCTTCCGTTTCCAGGACACAGGGCTGCTCCTGCGGGTACTTGGGAGCCTCTTCCCTTGGCGGG
ATTCTCGCCTTTGGTTTGGGCTTCTCTGAGTTCCTCCTGGTCTCCAGAACCTCCAGCCTCACTCTCTCCATTGCC
GGCATTTTTAAGGAAGTCTGCACTTTGCTGTTGGCAGCTCATCTGCTGGGCGATCAGATCAGCCTCCTGAACCTGG
CTGGGCTTCGCCCTCTGCCTCTCGGGAATATCCCTCCACGTTGCCCTCAAAGCCCTGCATTCCAGAGGTGATGGT
GGCCCCAAGGCCTTGAAGGGGCTGGGCTCCAGCCCCGACCTGGAGCTGCTGCTCCGGAGCAGCCAGCGGGAGGAA
GGTGACAATGAGGAGGAGGAGTACTTTGTGGCCCAGGGGCAGCAGTGACCAGCCAGGGCAAATGGCTTAGAAGCA
GGCCACTCCCCAGCCTGCTGCCAGCACTCACTGTGCTCAAGCCGCCAGGGCTCATCATGGTAGCTGGGAGCTGTG
GACGGGAGTCACCAGGTGGTGGGGCCAAGCCAGGGACTCATGACTTTTGCCCTCCCTTCAGAGCCTGGTCACAC
AAGGGGCGAGCACCAGGCCAGCCTGGGACTGGCCAGAGCTGGGCCCAAGCTGCGCTGGAATCGCAGCAGGAGAGG
GGAGTGGGCTGGTTCTTCCCACCACTTCCCAGGCTCTGACAGCCGAGACTCATTTCCAAGGCACAGCAGCTTTCT
AAAGGGACTGAGTTTGGACTGGGTTTTGGACCTCCAGGGGCTGGAGCTTCATCACCTGGGCAGTGTCTTTCTCA
GAGAGCAGGTTTCTTTATAGTTTGGAAATAAATGGTTACGGTCCACTGGCCGCCTTGTTGCTGGAGACGTGG
GGGCAGGGAGGGGACAGTGTGGGCCTGGCCTCTCCTTTCCCTTCCCTGCTGGAGCCTTCTTCAAATGTCTGGTC
TTAAGCCAGGCCTCCTTCATTTTCTCGCTCCTGTTAGAACACCAGTCCCCTCCCCAGTGGGGCCCCACTGCACCT
GCTGGCAGGAAATAAATGAATGTTTACTGAGTACTGCA

6272/6881
FIGURE 5794

GCGCGCTCTGCTCGGCTGCAGGCTCAGGAAGCGGCGCGGCGGCACGTGCTGGGCCAGAGCCCCGCGCCCTGCGTC
CAGCCGCCGGGTGTGTGCGCCCGGTAGCCACGCTCGCGCCTCGGCGCCCCACGCGCCACGCAGCGGCGCGG
GGACCCGGGCGGGGCGAGGGAGGGCCCGGCCAGGAGGAGAAGGGCCGGTCTCCCGGCGCAGGCAGCAGC
CGCGGCAGCCCAGGAGGCGGAGGCAGCGGCAACGGCAGAGACAGCAACGTGCCCCCGCAGTCAGCCCGGCCTCG
TCGGACCCGCACCGGCCCCGCCCCGCCGACCGCTCGGGGCGCCCTCTCCACTGCGCGCGGTACAAGGAAA
TGGTAGAACTAGTGATCTCAGCCAGCCTCACTGTAAACAGCGATTGTCTGGATAAACTGAAGTTTAACCGTGCTG
ACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACAAATCGGCCCCCTGAGAGTGTCCAGCTCTTCT
CCAGATCTTGCCACGTGTCTCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGCCAGACGCAGTACAGTG
CGGGGATCCAGCAGGCTACCCCTATACAGCTTACCCACCTCCAGCACAAAGCCTATGGAATCCCTTCCTACAGCA
TCAAGACAGAAGACAGCTTGAACCATTCCTTGGCCAGAGTGGATTCTCAGCTATGGCTCCAGCTTCAGCACCT
CACCCACTGGACAGAGCCCATACACCTACCAGATGCACGGCACAACAGGGTTCTATCAAGGAGGAAATGGACTGG
GCAACGCAGCCGGTTTCGGGAGTGTGCACCAGGACTATCCTTCTACCCCGGCTTCCCCCAGAGCCAGTACCCCC
AGTATTACGGCTCATCTTACAACCTCCCTACGTCCCGGCCAGCAGCATCTGCCCTTCGCCCTCTCCACGTCCA
CCTACGTCTCCAGGAGGCATCTCACAACGTCCCCAACCAGAGTTCCGAGTCACTTGCTGGTGAATACAACACAC
ACAATGGACCTTCCACACCAGCGAAAGAGGGAGACACAGACAGGCCGACCGGGCCTCCGACGGGAAGCTCCGAG
GCCGGTCTAAGAGGAGCAGTGACCCGTCCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTTCGTGTGGGACTTGG
ATGAGACAATAATTATTTTCTACTCCTTACTCACGGGACATTTGCATCCAGATACGGGAAGGACACCACGACGT
CCGTGCGCATTGGCCTTATGATGGAAGAGATGATCTTCAACCTTGCAGATACACATCTGTTCTTCAATGACCTGG
AGGATTGTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGCACATACAATTCT
CCGTGACGGCTTCCACAGTTCGGCCCCAGGAGCCAACCTGTGCCTGGGCTCTGGCGTGCACGGCGCGCTGGACT
GGATGAGGAAGCTGGCCTTCCGCTACCGGCGGGTGAAGGAGATGTACAATACCTACAAGAACAACGTTGGTGGGT
TGATAGGCACTCCAAAAGGGAGACCTGGCTACAGCTCCGAGCTGAGCTGGAAGCTCTCACAGACCTCTGGCTGA
CCCCTCCCTGAAGGCACTAAACCTCATCAACTCCCGGCCCAACTGTGTCAATGTGCTGGTCAACCACTCAAC
TAATTCCTGCCCTGGCCAAAGTCCTGCTATATGGCTGGGGTCTGTGTTTCTATTGAGAACATCTACAGTGCAA
CCAAGACAGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTGCGCAGAAAAGCTGTCTACGTGGTGATCG
GTGATGGTGTGGAAGAGGAGCAAGGAGCGAAAAAGCACAAATGCCTTTCTGGCGGATATCCTGCCACGCAGACC
TGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTATAGCAGGATCAGCAGCATCTCCACCTGCCATCTCACC
CTCAGACCCCTCGCCTTCCCCACCTCCCCACCGAGAACTCCAGAGACCCAGATGTTGGACACCAGGAAGGGGCC
CCACAGCCGAGACGACGTGTCCAGTGACCATCTCAGAAGCCGTCCATCAGTCCAAATGGGGGTTCTGAGAAGGAA
AGTACCCAACATTGGCTTCGGAGTATTTGACTTTGGGGAAAAGGGCTGGCTCGGAGTCTAGACTCTTCTGTAAGA
CTCACAGAACAAAAGCAAGGAATTGCTGATTTGGGGGGTGCCTGGTGATGAGGAGGGGATGGGTTTGTCTTGCT
TCTTTTTAATTTATGGACTAGTCTCATTACTCCGGAATTATGCTCTTGACCTGTGTGGCTGGGTTTCTTAGTCG
TTGGTTTGGTTTGGTTTTTTGAACTGGTATGTGGGGTGGTTCACAGTTCTAATGTAAGCACTCTATTCTCAAAGT
TGTGCTTTGTGGGGACAATCATTCTTTGAACATTAGAGAGGAAGGCAGTTCAAGCTGTTGAAAAGACTATTGCTT
ATTTTTGTTTTTAAAGACCTACTTGACGTCATGTGGACAGTGACGTGCCTTACGCTACATCTTGTCTTAGGA
AGAGGGGGATGCTGGGAAGGAATGGGTGCTTTGTGATGGATAAAAGGCATTAAATAAAACCAGTTTACATTTTG

6273/6881
FIGURE 5795A

CGGCGCCGCGCGGCCGCGCTAGAATGGAGGCGCCAGCGGCAGCGAGCCCGGCGGCGACGGGGCCGGGGACTGCG
CCCACCCGGACCCCGGGCCCCCTGGCGCCGCGGCGCCAGCTCCGGCCCCGGCCCGTGC GCGGCCGCCCGGGAGT
CCGAGCGCCAGCTGCGCCTCCGCCCTCTGCGTCTCAACGAGATCTTGGGCACCGAGAGGGACTACGTGGGCACCT
TGCGCTTCTTGCACTCGGCATTCTGTCATCGCATCCGGCAGAACGTGGCCGACTCAGTGGAGAAGGGCCTCACGG
AGGAGAATGTCAAGGTCCTGTTCTCGAACATCGAAGACATCCTGGAAGTTCATAAGGATTTCTTGCCGCGCTTGG
AGTATTGTTTACACCCGGAGCCGCGAGTCTCAGCATGAACCTGGGAATGTTTTCTTAAAATTCAAGGACAAGTTCT
GCGTGTACGAGGAGTATTGCAGCAACCATGAGAAAGCCCTGAGGCTGCTGGTGGAGCTGAACAAGATCCCTACCG
TGCGCGCCTTCCCTTTTGGAGCTGCATGCTTCTGGGAGGCCGGAAGACCACGGACATCCCTTTGGAAGGCTACCTGT
TGTCTCCGATCCAGAGGATCTGCAAGTACCCGCTCCTCCTTAAGGAGCTGGCCAAGAGGACTCCCGGCAAGCACC
CAGACCACCCCGCGGTCCAGAGTGCCCTGCAGGCCATGAAGACCGTTTGTCTCAACATCAATGAGACCAAGCGGC
AGATGGAGAAGCTGGAAGCCCTGGAGCAGCTGCAGTCCACATCGAAGGCTGGGAGGGTTCCAACCTCACAGACA
TCTGCACTCAGCTCCTCCTGCAAGGGACTTTGTTAAAGATCTCTGCGGGCAACATCCAGGAAAGGGCCTTCTTCC
TCTTCGACAACCTTCTCGTCTACTGCAAGCGGAAATCCAGGGTACC GGGAGCAAGAAGTCCACCAAGAGGACCA
AATCCATCAACGGCTCCCTCTACATCTTCAGGGGTGCAATCAACACTGAAGTCATGGAGGTGGAGAATGTGGAAG
ATGGGACAGCGGATTACCATAGCAACGGCTATACCGTACCAACGGCTGGAAGATCCACAACACGGCCAAGAATA
AGTGGTTTGTCTGCATGGCCAAGACGGCAGAGGAGAAGCAGAAGTGGCTGGATGCCATCATCCGCGAGCGGGAGC
AGCGCGAGAGCCTGAAGCTGGGCATGGAGCGTGATGCCTACGTATGATTGCGGAGAAGGGGGAGAAGCTGTACC
ACATGATGATGAACAAGAAGGTGAACCTCATCAAGGACCGCCGGAGAAAGCTGAGCACTGTCCCAAGTGCTTTC
TTGGCAATGAGTTCGTTGCCTGGCTCCTAGAAATTGGTGAAATCAGCAAGACGGAAGAAGGAGTCAACTTGGGCC
AAGCCCTGTTGGAGAATGGCATCATCCACCATGTTTCCGACAAGCACCAGTTCAAGAATGAGCAGGTGATGTATC
GCTTCCGCTACGACGATGGCACCTACAAGGCCCGAAGTGAGCTGGAGGACATCATGTCCAAGGGTGTGAGGCTTT
ACTGCCGTCTTCACAGCCTCTACACCCCGGTGATCAAAGACCGTGATTACCACCTGAAGACCTACAAGTCAGTGC
TTCCCGGGAGCAAGCTGGTGGACTGGCTGCTGGCTCAGGGAGACTGCCAGACTCGGGAGGAGGCAGTGGCGCTCG
GCGTGGGTCTGTGCAACAATGGCTTCATGCACCACGTGCTGGAGAAGAGCGAGTTCAGGGATGAGTCCAGTACT
TCCGCTTTCATGCTGACGAGGAGATGGAGGGGACCAGCAGCAAGAACAACAGCTTCGCAACGACTTCAAGCTGG
TGGAGAACATTCTGGCCAAGCGCCTGCTGATCCTGCCCCAGGAGGAGGACTATGGCTTTGACATCGAGGAGAAGA
ACAAGGCTGTGGTGGTGAAGTCCGTCCAGAGGGGCTCGCTGGCTGAGGTGGCTGGCCTGCAGGTGGGGAGGAAGA
TCTACTCCATCAATGAGGACCTGGTGTCTCTGCGGCCGTTTTTCAGAGGTGGAGTCCATCCTCAACCAGTCCCTCT
GCTCCCGCCGCCCTCTGCGCCTCCTGGTGGCCACGAAGGCCAAAGAGATCATCAAAATCCCCGACCAGCCGGACA
CACTGTGCTTCCAGATTCTGTGGAGCTGCCCCACCGTACGTCTATGCTGTGGGGAGAGGCTCTGAGGCCATGGCTG
CAGGGCTCTGTGCTGGTCACTGCTGATTCTGAAGGTCAATGGCAGCAACGTGATGAACGATGGTGCCCTGAGGTCC
TGGAGCACTTCCAGGCATTCCGGAGTCGCGCGCAAGAGGCCCTGGGCCTGTACCAGTGGATCTACCACACCCATG
AGGATGCCCAGGAAGCACGAGCCAGTCAGGAGGCCTCCACTGAGGACCCAGTGGCGAGCAGGCCCAGGAGGAAG
ACCAGGCTGATTACAGCCTTCCCACTGCTGTCCCTGGGTCCCCGGCTGAGCCTGTGTGAGGACAGCCCCATGGTCA
CCCTGACTGTGGACAACGTGCACCTGGAACACGGCGTGGTGTATGAGTATGTGAGCACGGCAGGCGTCAGGTGCC
ATGTGCTGGAGAAGATCGTGGAGCCCCGCGGCTGCTTCGGCCTCACCGCCAAGATCCTCGAGGCCTTTGCTGCCA
ATGACAGCGTCTTCGTGGAGAATGCAGGCGGCTCATGGCCCTGAGCAGCGCCATCGTGACCATGCCCCACTTTG
AGTTCCGCAACATCTGTGACACCAAGCTGGAGAGCATTGGCCAGAGGATTGCCTGTACCAGGAGTTTGCAGCCC
AACTGAAGAGCAGGGTCAGCCACCCCTTCAAACAAGCCCCCTGGAGCCCCACCCGCTGTGTGGCCTGGACTTCT
GCCCCACCAATTGCCACATCAACCTCATGGAAGTGTCTACCCCAAGACCACCCCTCAGTGGGCAGGTCTTCA
GCATCCGCTTTGGACGCAAACCTCCCTCATCGGCCTTGACCCGGAGCAAGGCCACCTGAACCCCATGTGCTACA
CCCAGCACTGCATCACCACCATGGCTGCTCCCTCCTGGAAGTGCTTGCTGCTGAGAGGGTGTATCCCAAGGCC
AGGGTCTCCATGATGGCAGCTTCGGGCCAGCCAGTGGGACCCTTGGTCAGGAAGACCGGGGCCCTCAGCTTCTTAC
TCAAGCAGGAGGACCGTGAGATCCAGGATGCCTACCTGCAGCTCTTACCAAGCTGGATGTGGCCCTGAAGGAGA
TGAAGCAATATGTACCCAGATCAACAGGCTGCTGTCCACCATCACAGAGCCACCTCGGGTGGGTCTGCGACG
CATCCTTGGCTGAGGAGGCCTCCTCCCTGCCCCCTGGTCACTGAAGAGAGCGAGATGGACAGGAGTGACCATGGGG
GCATCAAGAAGGTGTGCTTCAAGGTGGCCGAGGAGGACCAGGAGGACTCAGGCCACGACACCATGAGTTATCGCG
ACTCCTACAGCGAGTGTAACAGCAATCGAGACTCGGTCTGTCTACACAGCGTGAGAAGTAACAGCTCCTACT

6274/6881
FIGURE 5795B

TGGGCAGCGACGAGATGGGGTCTGGAGATGAGCTGCCCTGTGACATGCGGATCCCATCTGACAAGCAGGACAAGC
TTCATGGCTGCCTGGAGCACCTCTTTAACCAGGTGGACTCCATCAATGCTCTCCTCAAGGGGCCAGTCATGAGCC
GGGCTTTTGAAGAGACCAAGCATTTCCTATGAACCACAGCTTACAAGAGTTTAAACAGAAAGAAGAGTGTACAA
TCCGTGGCCGGAGCCTGATCCAGATTAGCATCCAGGAGGACCCCTGGAACCTCCCCAATCCATCAAGACCCTGG
TGGACAACATTAGAGATATGTGGAAGATGGGAAGAACCAGCTGCTCCTGGCCTTGCTGAAGTGCACAGACACGG
AGCTGCAGCTGCGCAGAGACGCGATCTTCTGCCAGGCCCTGGTGGCCGCCGTGTGCACCTTCTCCAAGCAGCTGC
TGGCGGCCCTGGGCTACCGCTACAACAACAATGGCGAGTACGAGGAGAGCAGCCGCGACGCCAGCCGCAAGTGGC
TGGAGCAGGTGGCGGCCACGGGCGTCTGCTGCACTGCCAGTCCCTGCTCTCGCCAGCCACAGTGAAGGAGGAAC
GGACCATGCTGGAGGACATCTGGGTGACGCTGTGAGAGCTGGACAATGTACCTTCTCCTTTAAGCAGCTGGACG
AGAACTATGTGGCCAACACCAACGTCTTCTACCACATTGAGGGCAGCCGGCAGGCGCTGAAGGTCATCTTCTACC
TCGACAGCTACCACTTCTCCAAGCTGCCCTCCCGCTGGAGGGTGGGGCCAGCCTGAGGCTGCACACAGCGCTGT
TCACGAAAGTGTGGAAGACGTGGAGGGGCTGCCTTCTCAGGCAGCCAGGCCGCGGAGGATTTCAGCAGGACA
TCAACGCGCAGTCCCTGGAGAAAGTTCAGCAGTATTACCGCAAACCTCAGGGCATTTTACCTGGAGCGGTCTAAC
TGCCACCGGATGCCAGCACCGCGGTAAAGATAGACCAGCTGATCCGCCCCATCAATGCCCTGGATGAGCTCT
GCCGCTCATGAAGTCTTTGTCCACCCAAAGCCTGGTGTCTGCTGGGAGTGTGGGCGCCGCCCTCATCCCCATCT
CCTCGGAGCTCTGCTACCGCTGGGGGCTGCCAGATGGTCAATGTGTGGCACAGGCATGCAGAGGAGCACCTGA
GCGTGTCCCTGGAGCAGGCGGCCATCTTGGCACGGAGCCACGGGTGTGTGCCAAGTGCATCATGCAGGCCACGG
ACATCATGCGGAAGCAGGGCCCAAGGGTGGAGATTCTGGCCAAAACCTGCGAGTCAAGGACCAGATGCCCCAGG
GTGCTCCGCGCCTCTACCGCTCTGCCAGCCGCGGTGGATGGGGACCTCTGAACACCCAAATGCCCCACGCTGG
GCCGCGCCTCTGGAGCTGGGATTGGGAGGACACAGCAGGCAGCGCTGGCCACCCTCGCTGTGATGACGAGCTG
GCTGATTGGCCCTGGGCGGCCCATCTTTCACACGCCTGCCAGAAGCTGGAGGGGTGCTGGAGACCCATAGAGCT
GATGGGAGCAGCTGGTGCCTGGCCTTCGGCTCCTGCGTCCCAGAACC CAAGGAACGTTCATGGAGGCCACATGG
GGCCACCCGGCTCCCTCGGGATGGCTCCGCTGCACTTTTGAAACCCCGGTTTCCTTCAACGTCCACATTCCAGG
TGACCACACGTGTCTCCTCCTCATCTTAGCTTCCAGGTTACCCTAACCTGTACTAACCTGCTTGGTGGAC
TTGGAAAAGACTTGGCTCTGTGCGGAAAGGAGAGACGGGGCCTCCATCACGCCTGTTACCAGAGGATCCCCGAGA
GCCACACCAGCTCTGGACATCACCGCCCCCTGGAACCTGGGGCCACCAGCCCTGGGCACGAGATTTGCTCTGACTTT
ATTTATATGGCATGAAATCTCTGGTTTATTTTGGGATTTTTTGTGTGTTGGTGTGTGCAAGTTTGTTTTTTCTAA
AGTTGTGTGATTATATATTTGACATTTTACATTTCAAAGAAAGGTATGTTGTCTAACAGGGGACCAACAGAAGGT
AGTATTGACAACTGTTCTCTACTAAAAAAGAGACAAAAAGAAAACTAAATTATTGAAAAATTAAA
AAATGTCATTGTTTCTGTTTGTAAATATTAGGGTTGTAAGGTGTCGTTTTGAGGTATCGACTGTGATTCTTCC
CCCACCTCCATTCTCCAGCGGTTGGCCGGTGTAGAACTCGCTCTCTTTGAGTGACTGGCTACAAGGGCCTGAG
AGGTGGCCAGCCAGGGTTGGAGCTGGAGGGGATGGAGCCCCACCTGAGGTGCCGTGTCACACGGGTTAGAGGGTC
ACTGGGAAACACCGGGCGGTGGCTTCTGTGATTTATTTCTTGATGGTAACTTCTCAGAGCAGGGCGATTGGGAC
ATCACCAGCCAGAGCACAGGAAGCCACCTGCCTGCTGGGGAGGAGGGACCCACACAAGCCCCCTCGGCAGTTTG
TCCCCCAGCTTCGGTATGCCTTCAGGGAAAGGTCACAGCTGGGGAGGAAGCGGGGGGACGCCTGTCAACCCCTGG
CAGGTGGTGAAGTTCAGGTGGGGGCTCCCTGCTGCCCCAGGCCCTGGGAGCTTGAAGCCCTCCCGGCATCTGGCAT
CCGAGCCTCCCGCCCTCCAGGGTGCCTTCCCTCTCTTGCCGAGCATACAGAGGGCAGGCAGTGGCCTTGTCA
CTGTATCTTGCATCAGAGACAAAGGAGGACCCGCTTAGCCCTGCTGCGGGAAATGGGGGAGGGCCAGGGCCAG
CGCATTTGTGCACTGGTTTACTTTAAAATGTACAGATTCTTCTCGTTAAATTCTTGATAGATTTTTTATTATTATT
AAAAGTCAGTTTATAATAC

6275/6881
FIGURE 5796A

GCATTCTGGCCCCGCCCCCTGCAGCGGGCCGCTCGCTCATGCGCTCTGGCCTCAGGCTCGCTGTCGCGCCATTT
TGCCGGGGTTTGAATGTGAGGCGGAGCGGCGGCAGGAGCGGGTAGTGCCAGCTACGGTCCGCGGCTGGGGTTCCC
TCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAAGTCTGAGGCTGAGAAATTTCTTGAATCTGTTGAAGGA
AATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTATGTGCTTCA
GTAACATTCAAAAATATATTTAAAGGAAGTGGAGAATTGTTGAAGATGAACCAACAAAATTTGTGAAGCCGAT
CGAGTGGCCATTAAAGCCAACATAGTGCACCTTGATGCTTAGCAGCCCAGAGCAAATTCAGAAGCAGTTAAGTGAT
GCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATGGTGAATCGCTTT
CAGAGTGGAGATTTCCATGTTATTAATGGAGTCCCTCCGTACAGCACATTCAATTATTTAAAGATACCGTCATGAA
TTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTTCTGGATGCCTTTGCTTTGCCTTTGACTAATCTTTTT
AAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTTTCTTCCCTGATC
CTGATCTCAAAATTTGTTCTATAGTTTAACTTTTCAAGATCTCCCTGAATTTTTTGAAGATAATATGGAACTTGG
ATGAATAATTTTCATACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAGGAAGCCGGCTTA
TTGGAGCTCTTAAATCCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAAGAATTCCAGCGA
TACCTGCCTCGTTTTGTTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAAATATGATTTGTTG
GTAAGTAATGCAATTCAATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTTGAGGACCAGAAC
ACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAAGAAGCATTTGAA
GATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGGGCTGCTTGTGAT
CTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCTGTGACAGGAATCTTCTCTGTTATGTTAATCCATGCTG
CAGGAATACGCAAAAATCCATCTGTCAACTGGAACACAAAGATGCAGCCATCTACCTAGTGACATCTTTGGCA
TCAAAAGCCCAACACAGAAGCATGGAATTACACAAGCAAATGAACTTGTAACCTAACTGAGTTCTTTGTGAAT
CACATCTCCCTGATTTAAATCAGCTAATGTGAATGAATTTCTGTCTTAAAGCTGACGGTATCAAATATATT
ATGATTTTTAGAAATCAAGTGCCAAAAGAACATCTTTTAGTCTCGATTCTCTCTGATTAATCATCTTCAAGCT
GAAAGTATTGTTGTTTACTACTTACGCAGCTCATGCTCTTGAACGGCTCTTTACTATGCGAGGGCCTAACAAATGCC
ACTCTCTTACAGCTGCAGAAATCGCACCGTTTTGTTGAGATTCTGCTAACAAACCTTTTCAAAGCTCTCACACTT
CCTGGCTCTTCAGAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTTTCTCTCTACAAGAAGCCATAATC
CCCTACATCCCTACTCTCATCACTCAGCTTACACAGAAGCTATTAGCTGTTAGTAAGAACCAAGCAAACCTCAC
TTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAACTTGCAAAGCTAACCTGCTGCTGTTGTA
AATTTTGAGGAGGCTTTGTTTTGTTGTTTACTGAAATCTTACAAAATGATGTGCAAGAATTTATTCCATACGTC
TTTCAAGTGATGCTTTGCTTCTGGAACACACAAAATGACATCCCGTCTTCTATATGGCCTTATTTCCCTCAT
CTCCTTCAGCCAGTGCTTTGGGAAAGAACAGGAAATATTCTGCTCTAGTGAGGCTTCTTCAAGCATTCTTAGAA
CGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATCTCTGGGTTACTAGGTGCTTTTCAAGAGCTGATT
GCATCCAAAGCAAATGACCACCAAGGTTTTTATCTTCTAACAGTATAATAGAGCACATGCCTCCTGAATCAGTT
GACCAATATAGGAAAACAAATCTTCTCTGCTATTCCAGAGACTTCAGAATTCAAAACAACCAAGTTTATCAAG
AGTTTTTTAGTCTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATATTTGATGGTATA
CAACCAAAAATGTTTGAATGGTTTTGGAAAAATATTATTCCTGAAATTCAGAAGGTATCTGGAAATGTAGAG
AAAAAGATCTGTGCGGTTGGCATAACCAAAATTACTAACAGAATGTCCCCCAATGATGGACACTGAGTATACCAAA
CTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCAATTCCTGATGAGGAA
CATTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCTTCTCACAGTTGGCATTGCTGAGGAAAAAGAG
CATGATCCTGTAGGTCAAATGGTGAATAACCCCAAATTCACCTGGCACAGTCACTTACAAAGTTGTCTACCGCC
TGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTCCAAGGGTACCTT
CAGGCAGCCAGTGTGACACTGCTTTAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTTCTAGGAAATCA
CAGGCTTCTGAGCACAGCTGCATTAAACAAAGGAAGTTCTCCTTTGAACTTGTACGAATTCATCTTGTAA
GGATATTAAATGTTGCTTTAACCTGAACCTTGAGCAAATAGTTGGTTTGTGTGATCATACAGTTATGTGGGTGG
CTTCTAGTTTGCACTTCAAGGGACAAGTATTAATAGTTAGTGTATGGCGTTGGTTTGTGTTGAGCGTTTGCAC
GGTTTGGATAATCTTAAATTTTACGGGACACTGTGGAGACTTTCTGTTACTAAATCCTTTTGTGTTTGAAGCTGTT
GCTATTTGTATTTCTTGTCTTTATATTTTTTGTCTGTTTATTTACGCTTTTATTGGAAATGTGAATAAGTAA
AGAATTACTTGTGTTACTTGCCAAGCAGTGCACATTTCATAGTTTCAAATCTGTAATCAGCAATAAAAAATCCTAA

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FIGURE 5796B

AATATGTACCT

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FIGURE 5797

MELSDANLQTLTEYLKKTLDPPAIRRPAEKFLESVEGNQNYPLLLLTLEKSQDNVIKVCASVTFKNYIKRNWR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQQLSDAISIIGREDFPQKWPDLITEMVNRFAQSGDFHVGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVLDALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFFEDNMETWMNNFHTLLTLDNKLQTDDEEEAGLLELLKSQICDNAALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDLE
GSDIDTRRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNPSVNWKHKDAAIYLVTSLASKAQTQKHGITO
ANELVNLTFFVNHILPDLKSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAESIVVHTYAHA
LERLFTMRGPNNATLFTAAEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLQEAIIPIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVVNFEALFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMALEFPVLLQPVWERTGNIPALVRLQAFLEGRSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIIEHMPPEVDQYRKQIFILLFQRLQNSKTTKFISFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IPEIQKVSGNVEKKICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGMVNNPKIHLAQSLHKLSTACPGRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 5798

AAGTGACGCATGGTACTTGCACAAAGACGACGAGGAGGCTGCGAAAAGTTAAGGGCCGGACCGCAGGCTGTGCTC
GCTTCCGGAAGTGGCTTCTGCGACAACATGCTTGCAGGACCTCGGCTTAATCGGAACCATAGGCGAGGATGACGAG
GTGCCGGTGGAGCCCGAGTCTGACTCCGGGGACGAGGAAGAGGAGGGGCCATTGTGCTGGGCAGACGACAAAAA
GCTTTGGGGAAGAACCGCAGTGCTGATTTCAACCCCTGATTTCTGTTTTCACTGAGAAGGAGGGGACGTACGATGGC
AGCTGGGCCCTGGCTGATGTCATGAGCCAACTCAAGAAGAAGAGGGCAGCCACTACATTAGATGAGAAGATTGAG
AAAGTTCGAAAGAAAAGGAAAAACAGAGGATAAAGAAGCCAAGTCTGGGAAGTTGGAAAAGGAGAAAGAAGCAAAG
GAAGGCTCTGAACCAAAGGAGCAGGAAGACCTTCAAGAGAATGATGAGGAAGGCTCAGAAGATGAAGCCTCGGAG
ACTGACTACTCATCAGCTGATGAGAACATCCTCACCAAAGCAGATACACTCAAAGTAAAGGATCGGAAGAAGAAG
AAGAAGAAAGGACAGGAAGCAGGAGGATTTTTTGAAGATGCATCTCAGTACGATGAAAACCTCTCGTTCCAGGAC
ATGAACCTTTCCCGCCCTCTTCTGAAGGCCATTACAGCCATGGGCTTCAAGCAGCCACCCCGATCCAGAAGGCG
TGCATACCTGTGGGCTCTATTGGGGAAGGACATCTGTGCCTGTGCAGCCACTGGGACAGGTAAACTGCCGCCTTT
GCCCTGCCTGTTTTGGAGCGTCTGATTTATAAACCCCGCCAGGCTCCAGTCAACCGCGTGTGGTGCTAGTGCCC
ACCCGAGAGCTGGGCATCCAGGTGCACTCTGTACCAGACAGCTGGCCAGTTCTGCAACATACCACCTGCCTG
GCTGTGGGCGGCTTGGATGTGAAGTCTCAGGAAGCAGCTCTTCGGGCAGCGCCTGACATCCTCATCGCCACCCCA
GGCCGGCTCATCGATCACCTCCACAACCTGCCCTTCCTTCCACCTGAGCAGCATCGAGGTGCTCATCCTGGACGAG
GCTGACAGGATGCTGGATGAGTACTTTGAGGAGCAGATGAAGGAGATCATCCGAATGTGTTCCACCACCGCCAG
ACCATGCTCTTCTCGGCCACCATGACAGACGAGGTGAAAGATCTGGCTTCTGTCTCCTTGAAGAATCCTGTCCGG
ATATTTGTGAACAGCAACACAGATGTGGCTCCCTTCCTGCGGCAGGAGTTCATCCGGATCCGGCCTAATCGTGAA
GGAGACCGGGAAGCCATCGTGGCAGCTTTGTTGACGAGGACCTTCACTGACCATGTGATGCTGTTACGCAAAACC
AAGAAGCAGGCCCCACCGCATGCACATCCTCCTGGGGCTCATGGGGCTGCAGGTGGGTGAGCTCCATGGCAACTTG
TCACAGACGCAGCGGCTGGAGGCCCTCCGGCGTTTTTAAGGATGAACAGATTGACATCCTCGTGGCCACTGATGTG
GCAGCCCGTGGACTTGACATTGAGGGGGTCAAACCGTAATCAACTTCACAATGCCTAATACCATCAAACATTAT
GTCCACCGGGTGGGGCGAACAGCACGTGCTGGCAGGGCTGGGCGCTCAGTCTCTCTGGTGGGAGAAGATGAGCGG
AAGATGCTGAAGGAGATTGTAAAAGCTGCCAAGGCCCTGTGAAGGCCAGGATACTTCCCCAAGATGTCATCCTC
AAATTCGGGACAAGATTGAGAAAAATGGAGAAAGATGTGTATGCAGTTCTGCAGCTAGAGGCGGAGGAAAAAGAG
ATGCAGCAGTCAGAAGCCCAGATCAATACAGCAAAGCGGCTCCTGGAGAAGGGGAAGGAGGCAGTGGTCCAAGAG
CCCGAGAGGAGCTGGTTCCAGACCAAAGAAGAGAGGAAGAAGGAGAAAATTGCCAAAGCTCTGCAGGAATTTGAC
TTGGCCTTAAGAGGAAAGAAGAAAAGGAAGAAGTTTATGAAGGATGCCAAAAAAGGGGGAGATGACAGCAGAG
GAAAGGTCTCAGTTTGAAATCCTCAAGGCGCAGATGTTTGCTGAACGGCTAGCGAAGAGGAATCGCAGAGCCAAG
CGGGCCCCGAGCAATGCCCGAGGAGGAGCCAGTGAGAGGTCCTGCCAAGAAGCAAAAGCAGGGGAAGAAATCTGTA
TTTGATGAAGAACTACCAACACAAGCAAGAAGGCCCTGAAACAGTATCGAGCTAGCCCTTCCTTTGAAGAAAGG
AAACAGTTGGGCTTGCCCCACCAGAGACGAGGAGGAAACTTTAAATCTAAATCCAGATACAAGAGGAGGAAGTAG

CTGTCTGGCCTGAAGAAATTCATGGGGGCAGCCCTTAAATCCCTTCCCTGTGGGAAGTCATCCTGGCTGGTCTG
TCTTTTCTCCATTTGTTTAAAAAACAACAAACAACTTTGGTGTGGTGGTATGGTACGTAGCTA
TTTTCTAAGCATGTCTGTCAATCTCCCTTCTTGCTGATTAGCTTTCATATGACTATATTAAATGGAAGTATTT
TGGGAAAAGAGAAACCAAAAAAAAAAAAAAAAAA

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FIGURE 5799

MVLAQRRRGCEKLRAGPQAVLASGSGFCDNMLADLGLIGTIGEDDEVPEPESDSGDEEEEGPIVLGRRQKALG
KNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEKIEKVRKKRKTEDKEAKSGKLEKEKEAKEGS
EPKEQEDLQENDEEGSEDEASETDYSSADENILTKADTLKVKDRKKKKKKKGQEAGGFFEDASQYDENLSFQDMNL
SRPLLKAITAMGFKQPTPIQKACIPVGLLGKDICACAATGTGKTAAFALPVLERLIYKPRQAPVTRVLVLVPTRE
LGIQVHSVTRQLAQFCNITTCLAVGGGLDVKSQEAALRAAPDILIATPGRLIDHLHNCPSFHLSSIEVLILDEADR
MLDEYFEEQMKEIIRMCSHHRQTMLFSATMTDEVKDLASVSLKNPVRI FVNSNTDVAPFLRQEFIRIRPNREGDR
EAIVAALLTRTFTDHVMLFTQTKKQAHMHILLGLMGLQVGELHGNLSQTQRLEALRRFKDEQIDILVATDVAAR
GLDIEGVKTVINFTMPNTIKHYVHRVGRTARAGRAGRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFR
DKIEKMEKD VYAVLQLEAEEKEMQQSEAQINTAKRLLEKGKEAVVQEPERSWFQTKERKKKEIAKALQEFDLAL
RGKKKRKKFMKDAKKKGEMTAEERSQFEILKAQMFAERLAKRNRRAKRARAMPEEPPVRGPAKKQKQGKKS VFDE
ELTNTSKKALKQYRASPSFEERKQLGLPHQRRGGNFKSKSRYKRRK

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FIGURE 5800

GAAAATGATCTCCAAAAGATTTCTCAGCAAGGCAGATTTACTTCTGCAGAATGGTGCTGCTTGCACTCCTGGTCA
CAGTGAGAGCACCCCGAACAAAGGAGGTGAAGTGGTTTTATCCCTAACACAGCTAGTTCCCTGCTTCTGTGTTCT
ATCCCCATTGGCTAGAGTCCAATCTAACTAGTCCTGATTGGCTATTTTAAACAGGAGGGGTGTGGGTTACAGCA
GTGGGAAGAGCAGTTGCCACGAGCGAGGGAGACTTTTCCAGATAAGGAACAAATGCGGGTTACAGGTTGGGATTG
GTGGGAGAAATGTTTACAGAATGGGTAATTAGGAGTGGGAAGGTATGAGGAAGTTGACCTTAAGAACAAAGAACA
AGGAAGTTAACTTTGAAGAGAAACCCATCATACCTAACAGTCTTGTAAGAAAGGATGACAAAGTGATTGAACAT
TGGGTGGAGCTAATTTTCTTGGCCAATTCACCTTAGTAAGATAAGGAGCTCCAAATCATATTTAAGTTGGGAGTC
AATTGATTTTACTTAATTCTTGTGAGGTTCAAGTTATAAGATTTCATCATACTACTACCATGAGCCATCCTCAGCTC
CTTGTTACATGGGCCTGTAAACATGGCAGCTTTGTCTATAAGCAAACCCAGGAGAGAAAGACATAGCAGAGATGG
ATGTTTGAAGTCTATACCTTCCACCCCTTTAAAGAGAAAGTAACACCACTCCTTTTCTGTGTCCCTTGGGGACA
CTACCTCCATGTCTGGTCACATGGCTGGACTTTACAGCAGATAAGCATACTGTGGCCTGAGACCATGATTGTATG
CTTTCCTTCTGCTGACCTTTACAATCCCTCAATAAATTGAGCTAACACAGGGAAGCTTTTTTACCAAATAACTGT
GTTGCATCATCCTCCAGTTTGCCTGGTGTCTTAATCAATGGAAGGGGAATAAGCAAAGTGAATTTTCTTACACC
TTTTGAGTATAGTGTTTTTGCCATCATAGATGTGGCTCCTCATAATTCTCCAACCTTTTATATTAATAAACCACAAA
CCTCAAAAATTGTAGTTCATGTCAGTCAGTGATGACTCATCTTAGAAGTATTTTGTTTTTGGATGTGTGAATGTG
CATAGTTCTTAAAGTCCAACATTCATGTAATAAGACATCTGTCATATAACAATGACCCTTACGTCTAAGATGTTA
AATAGATCCTAAGCCTGGTATAACTTTATTCAAGTATCCTTATTTGCCCTAAAATGTCTTTAATACACATTACT
TGGGTTATTTCTTGAATGAACATACAGGTATCCCAATTTCTGTTTTTAAGAGAATGGGGTCTTGCTCTGTCACCC
AGGCTGGAGTGCAGTGGTGCAGTCATGGCTTACTGCATCCATGATCCTCCTGCCTCAGCCTCCCAAGTAGATGGG
ACTGAAAGCACACACTGCCATCCCTGGCTAATGTTTTCATATTTGTAGAGTTGCAGCCTTGCTACGTGACCCAG
GCTGGAGTGTAGTAGCTATTACAGGCATGATTGCTTGAACTCATGGCTTCAAGGGAACTCCACCCCTCAATA
TCCTCAGTAGCTGCAACTACAGCCATACCCCCCACTGCTCAGCTTCTCATCCTTTAAAAGATTTTTACTGGTAGT
GTCCTCATTCTGGGTTTTTGTCTTCTGTGTTTACTGTGACATGAAGTCATTTTTTAGATGAAGGTTAAACATTTTG
CCAACGCAGGTACAATATGGGATTCAATAAAAGTACAGAATTAAAGTTGTCTTATTAGAGATTGGGAAGTTTCCC
AGCTCCGTTTATCGGTACTTGGCCGTACCGATAAAGGGGATGGACTTGGAGTGACCAGGTCTTAGTCACATGTAT
TTTCATACCCTAAACAAGAAGCGGTATAGACCAGAATGGAGCACTGATTGTAATCCACCTTCTTTCTTAGAACT
GGCGATGGAATATGAGAGGAGCCCTCTGGAAAGAAAAGGACAGACCCTGTGCTTTTCATGAAAGTGAAGATCTGGC
TGAACCAGTTCCACAAGGTTACTGTATACATAGCCTGAGTTTAAAGGCTGTGCCCACTTCAAGAATGTCATTGT
TAGACTTTGAAATTTCTAACTGCCTACCTGCATAAAGAAAATAAAATCTTTTAAATC

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FIGURE 5801

MISKRFLSKADLLQLNGAACTPGHSESTPNKGGEVVFIPNTASSCFVLSPLARVQSKLVLIGYFKQEGCGLQQW
EEQLPRARETFPDKEQMRVTGWDWWEKCLQNG

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FIGURE 5802

GGCACGGCCTAGCGAGTGGTTCTTCTGCGCTACTGCTGCGCGAATCGGCGACCCAGTGCCTCGACCACTATGCC
GCGCTCTTTCTCGTCAGGAAGCCCTCCGACCCCAATCGGAAGCCTAACTACAGCGAGCTGCAGGACTCTAATCC
AGAGTTTACCTTCCAGCAGCCCTACGACCAGGCCCACCTGCTGGCAGCCATCCCACCTCCGGAGATCCTCAACCC
CACCGCCTCGCTGCCAATGCTCATCTGGGACTCTGTCCTGGCGCCCCAAGCCCAGCCAATTGCCTGGGCCCTCCCT
TCGGCTCCAGGAGAGTCCCAGGGTGGCAGAGCTGACCTCCCTGTCTAGATGAGGACAGTGGGAAAGGCTCCCAGCC
CCCCAGCCCACCTCACC GGCTCCTTCTGTCCTTCTCCTCTACTTCAGTCTCTTCTTGGAGGCCGAGGCCTATGC
TGCCTTCCCAGGCTTGGGCCAAGTGCCCAAGCAGCTGGCCAGCTCTCTGAGGCCAAGGATCTCCAGGCTCGAAA
GGCCTTCAACTGCAAATACTGCAACAAGGAATACCTCAGCCTGGGTGCCCTCAAGATGCACATCCGAAGCCACAC
GCTGCCCTGCGTCTGCGGAACCTGCGGGAAGGCCTTCTCTAGGCCCTGGCTGCTACAAGGCCATGTCCGGACCCA
CACTGGCGAGAAGCCCTTCTCCTGTCCCCACTGCAGCCGTGCCTTCGCTGACCGCTCCAACCTGCGGGCCACCT
CCAGACCCACTCAGATGTCAAGAAGTACCAGTGCCAGGCGTGTGCTCGGACCTTCTCCCGAATGTCCCTGCTCCA
CAAGCACCAAGAGTCCGGCTGCTCAGGATGTCCCCGCTTGACCCTCGAGGCTCCCTCTTCTCTCCATACTGCC
CTGCCTGACAGCCTTCCCCAGCTCCAGCAGGAAGGACCCACATCCTTCTCACTGCCATGGAATTCCCTCCTGAG
TGCCCCACTTCTGGCCACATCAGCCCCACAGGACTTTGATGAAGACCATTTTCTGGTTCTGTGTCTCTGCCTGG
GCTCTGGAAGAGGCCTTCCCATGGCCATTTCTGTGGAGGGAGGGCAGCTGGCCCCCAGCCCTGGGGGATTCTGA
GCTGGCCTGTCTGCGTGGGTTTTTGTATCCAGAGCTGTTTGGATACAGCTGCTTTGAGCTACAGGACAAAGGCTG
ACAGACTCACTGGGAAGCTCCACCCCCACTCAGGGGACCCACTCCCTCACACACACCCCCCACAAGGAACCC
TCAGGCCACCCTCCACGAGGTGTGACTAACTATGCAATAATCCACCCCCAGGTGCAGCCCCAGGGCCTGCGGAGG
CGGTGGCAGACTAGAGTCTGAGATGCCCCGAGCCAGGCAGCTATTTAGCCTCCTGTTTGGTGGGGTGGCACCT
GTTTCCCGGGCAATTTAACAATGTCTGAAAAGGGACTGTGAGTAATGGCTGTCACTTGTGCGGGGCCCAAGTGGG
GTGCTCTGGTCTGACCGATGTGTCTCCAGAACTATTCTGGGGGCCCGACAGGTGGGCCTGGGAGGAAGATGTTT
ACATTTTTTAAGGTACACTGGTATTTATATTTCAAACATTTTGTATCAAGGAAACGTTTTGTATAGTTATATGTA
CAGTTTATTGATATTCAATAAAGCAGTTAATTTATATATTA

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FIGURE 5803

MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPEILNPTASLPMLIWDSVLAPQAQPIAWA
SLRLQESPRVAELTSLSDEDSGKGSQPPSPSPAPSSFSSTSVSSLEAEAYAAFPGLGQVPKQLAQLSEAKDLQA
RKAFNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKAFSRPWLLQGHVRHTTGEKPFSCPHCSRAFAADRNLRA
HLQTHSDVKKYQCQACARTFSRMSLLHKHQESGCSGCPR

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FIGURE 5804

TTCACACGGCACGACTTCATCGAGACCAACGGGGACAACCTGCCTGGTGACACTGCTGCCGCTGCTAAACATGGCC
TACAAGTTCCGCACCCACAGCCCTGAAGCCCTGGAGCAGCTATACCCCTGGGAGTGCTTCGTCTTCTGCCTGATC
ATCTTCGGCACCTTCACCAACCAGATCCACAAGTGGTCGCACACGTACTTTGGGCTGCCACGCTGGGTACCCCTC
CTGCAGGACTGGCATGTATCCTGCCACGTAAACACCATCGCATCCACCACGTCTCACCCCACGAGACCTACTTC
TGATCACCACAGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTA
GGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT
GGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAATAGAATGTGGACCTAAATACCCAGAAGCA
CCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGA
GCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCTGCAAGAGCTTCGGCGCCTAATG
ATGTCTAAAGAAAAATATGAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAAAAGAAAAACC
ACAGGCCCTTCCCCTTCCCCCAATTGATTAAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGATACGT
CTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGATACT
AATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCACGTA
GTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTCAACT
GTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCTTTACCCTC
CCGCTCCCACCTTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGTTTCAGGT
CGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTCCCTTTAAGTCTTAAGTGAT
GCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAACCCCT
CCACTCCCCCTCTGAGATTGGCTTCGGTGAGGAATTCAGGGCTTTCCCATATCTTCTCTCCCCCACCTTTATCG
AGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCCTTTTTTGACCGTCAACACCCAACACCTTCCATGACACTT
CCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAACCATA
CTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCTCAGCCCTGCCACCCTCTGCTGTCTCATCAGCTGA
TGCAATGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAAATAGTCACCAGGGTTACTCAGACCTGCCAGCTCTCG
GAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAATTGTT
TTACTTTCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTTCAATTTGGTCTATCCTTGC
AATCCATTGGGGTCTAGTTTGGAATCTGACAACCTGGAACAAAAAGAACCTTGAATCCGGTGCATGCCTTGGTTTT
GGTGTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCCGAAAT
TGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTTCCACTTGCTGTTTCAAGGACCACTAAATGCTGAAATGTGG
ATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTTTAAATTTAGTATTTGTGTAAA
ACCACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTTCTGGGGGGAAAA
CCTTAGTTCTAAGGATTTAACATCCTGTAAAGTGAAGTTTAAACATAACAGTATTCCATAAGCAGCCTTTTTATTGT
CAGACCATTGCCTGATTTTAAATATAATAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5805

MAYKFRTHSPEALEQLYPWECFVFCLIIFGTFTNQIHKWSHTYFGLPRWVTLLQDWHVILPRKHHRIHHVSPHET
YFCITTGVKVPNRNFRLLLEELEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTIYENRIYSLKIECGPKYP
EAPPFVRFVTKINMNGVNSSNGVVDPRASVLAKWQNSYSIKVVLQELRRLMMSKENMKLEQPPEGQCYSN

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FIGURE 5806

ATGCCAGGAGAGGTTCAAGCGTCTTACCTGAAGTCACAAAGCAAACCTGAGTGATGAAGGAAGACTTGAACCTAGA
AAATTTCACTGCAAAGACAATTTATGAAAACCGAATATACAGCCTTAAAAATAGAATGTGGACCTAAATACCCAGA
AGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCC
AAGAGCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCT
AATGATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAAAGAAA
AACCACAGGCCCTTCCCCCTTCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGAT
ACGTCTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGA
TACTAATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAAACCACTGTCCA
CGTAGTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGGCACATCTAACTC
AACTGTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCCTTAC
CCTCCCGCCTCCCACCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTAGAGTAGATGTGAAGGCTTC
AGGTGCGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTTCTTTAAGTCTTAAG
TGATGCCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAAC
CCCTCCACTCCCCCTCTGAGATTGGCCTTCGGTGAGGAATTCAGGGCTTTCCCCATATCTTCTCTCCCCACCTTT
ATCGAGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCTTTTTTGACCGTCACCACCCCAACACCTTCCATGAC
ACTTCCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAAC
CATACTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCCTCAGCCCTGCCACCTCTGCTGTCATCAG
CTGATGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCT
CTCGGAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAAT
TGTTTTACTTTCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTTGGTCATCC
TTGCAATCCATTGGGGGTCTAGTTTGAATCTGACAACTGGAACAAAAAGAACCTTGAACCCGGTGCATGCCTTG
GTTTTGGTGCTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCC
GAAATTGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTTCCACTTGCTGTTTCAGGACCACTAAATGCTGAAA
TGTGGATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTAATTTAGTATTTGT
GTAAAACCACTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTCTGGGGG
GAAAACCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAAACATAACAGTATTCATAAGCAGCCTTTTT
ATTGTCAGACCATTGCCTGATTTTAATATAATAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5807

MKEDLNLENFTAKTIYENRIYSLKIECGPKYPEAPPFVRFTKINMNGVNSSNGVVDPR AISVLAKWQNSYSIKV
VLQELRRLMMSKENMKLPQPEGQCYSN

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FIGURE 5808

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCGCCCTGCCTTTAAATCCATGGAA
GTGGCCAACCTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGGCCCCCGCGGCGCCCCC
GCGGCCAGACCCGGGCGCGCCCCCGCCGGCGAGCTGGGCAGCATCGGCGACCACGAGCGCGCCATCGACTTC
AGCCCGTACCTGGAGCCGCTGGGCGCGCCGAGGCCCGGCGCCCGCCACGGCCACGGACACCTTCGAGGCGGCT
CCGCCCCGCGCCCCCGCGCCCGCCTCCTCCGGGCAGCACCACGACTTCCTCTCCGACCTCTTCTCCGACGAC
TACGGGGGCAAGAACTGCAAGAAGCCGGCCGAGTACGGCTACGTGAGCCTGGGGCGCCTGGGGGCTGCCAAGGGC
GCGCTGCACCCCGGCTGCTTCGCGCCCCGTCACCCACCGCCCCCGCCGCCGCCGCCGCCGCCGCCGAGCTCAAGGCG
GAGCCGGGCTTCGAGCCCGCGGACTGCAAGCGGAAGGAGGAGGCCGGGGCGCCGGGCGGCGGCGCAGGCATGGCG
GCGGGCTTCCCGTACGCGCTGCGCGCTTACCTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCC
ACGTCCTCCTCGTCCAGCCCGCCCGGCACGCCGAGCCCCGCTGACGCCAAGGCCCCCCCCGACCGCCTGCTACGCG
GGGGCCGGGCGGCGCCCTCGCAGGTCAAGAGCAAGGCCAAGAAGACCGTGGACAAGCACAGCGACGAGTACAAG
ATCCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGCAG
CACAAGGTCCTGGAGCTCACGGCCGAGAACGAGCGGCTGCAGAAGAAGGTGGAGCAGCTGTGCGCGGAGCTCAGC
ACCCTGCGGAACCTTGTTCAAGCAGCTGCCCGAGCCCCCTGCTCGCCTCCTCCGGCCACTGCTAG

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FIGURE 5809

GTGATGCGTAGTTCCGGCTGCCGGTTGACATGAAGAAGCAGCAGCGGCTAGGGCGGCGGTAGCTGCAGGGGTCCG
GGATTGCAGCGGGCCTCGGGGCTAAGAGCGCGACGCGGCTAGAGCGGCAGACGGCGCAGTGGGCCGAGAAGGAG
GCGCAGCAGCCGCCCTGGCCCGTCATGGAGATGGAAGGAGTTTCGAGCAGATCGACAAGTCCGGGAGCTGGGCG
GCCATTTACCAGGATATCCGACATGAAGCCAGTGACTTCCCATGTAGAGTGGCCAAGCTTCCTAAGAACAAAAAC
CGAAATAGGTACAGAGACGTCACTCCCTTTGACCATAGTCCGATTAAACTACATCAAGAAGATAATGACTATATC
AACGCTAGTTTGATAAAAAATGGAAGAAGCCAAAGGAGTTACATTCTTACCCAGGGCCCTTTGCCTAACACATGC
GGTCACTTTTGGGAGATGGTGTGGGAGCAGAAAAGCAGGGGTGTCGTCATGCTCAACAGAGTGATGGAGAAAGGT
TCGTTAAATGCGCACAATACTGGCCACAAAAAGAGAAAAGAGATGATCTTTGAAGACACAAATTTGAAATTA
ACATTGATCTCTGAAGATATCAAGTCATATTATACAGTGCAGACAGCTAGAATTGGAAAACCTTACAACCCAAGAA
ACTCGAGAGATCTTACATTTCCACTATACCACATGGCCTGACTTTGGAGTCCCTGAATCACCAGCCTCATTTCTG
AACTTTCTTTTCAAAGTCCGAGAGTCAGGGTCACTCAGCCCGGAGCAGGGGCCGTTGTGGTGCAGTGCAGTGCA
GGCATCGGCAGGTCTGGAACCTTCTGTCTGGCTGATACCTGCCTCTTGCTGATGGACAAGAGGAAAGACCCTTCT
TCCGTTGATATCAAGAAAGTGCTGTTAGAAATGAGGAAGTTTCGGATGGGGCTGATCCAGACAGCCGACCAGCTG
CGCTTCTCCTACCTGGCTGTGATCGAAGGTGCCAAATTCATCATGGGGGACTCTTCCGTGCAGGATCAGTGGAAAG
GAGCTTTCCACAGGACCTGGAGCCCCACCCGAGCATATCCCCCACCTCCCCGGCCACCCAAACGAATCCTG
GAGCCACACAATGGGAAATGCAGGGAGTTCTTCCCAAATCACCAGTGGGTGAAGGAAGAGACCCAGGAGGATAAA
GACTGCCCCATCAAGGAAGAAAAAGGAAGCCCTTAAATGCCGCACCCTACGGCATCGAAAGCATGAGTCAAGAC
ACTGAAGTTAGAAGTCGGGTGCTGGGGGGAAGTCTTCGAGGTGCCAGGCTGCCTCCCCAGCCAAAGGGGAGCCG
TCACTGCCCGAGAAGGACGAGGACCATGCACTGAGTTACTGGAAGCCCTTCTGCTCAACATGTGCGTGGCTACG
GTCTCAGCGCCGGCGCTTACCTCTGCTACAGGTTCTGTTCACAGCAACACATAGCCTGACCCTCTCCACTC
CACCTCCACCCACTGTCCGCTCTGCCCCGAGAGCCACGCCCCGACTAGCAGGCATGCCGCGGTAGGTAAGGGCC
GCCGGACCGCTAGAGAGCCGGGCCCCGGACGGACGTTGGTTCTGCACTAAAACCCATCTTCCCCGGATGTGTGT
CTCACCCCTCATCCTTTTACTTTTTGCCCCCTTCCACTTTGAGTACCAAATCCACAAGCCATTTTTTGAGGAGAGT
GAAAGAGAGTACCATGCTGGCGGCGCAGAGGGAAGGGCCTACACCCGTCTTGGGGCTCGCCCCACCCAGGGCTC
CCTCCTGGAGCATCCAGGCGGGCGGCACGCCAACAGCCCCCCCCCTGAATCTGCAGGGAGCAACTCTCCACTCC
ATATTTATTTAAACAATTTTTTCCCCAAAGGCATCCATAGTGCAGTACGATTTTCTTGAACCAATAATGTATTAA
AATTTTTTGATGTCAGCCTTGCAATCAAGGGCTTTATCAAAAAGTACAATAATAATCCTCAGGTAGTACTGGGAA
TGGAAGGCTTTGCCATGGGCCTGCTGCGTCAGACCAGTACTGGGAAGGAGACGGTTGTAAGCAGTTGTTATTTA
GTGATATTGTGGGTAACGTGAGAAGATAGAACAATGCTATAATATATAATGAACACGTGGGTATTTAATAAGAAA
CATGATGTGAGATTACTTTGTCCCGCTTATTCTCCTCCCTGTTATCTGCTAGATCTAGTTCTCAATCACTGCTCC
CCCGTGTGATTAGAAATGCATGTAAGGTCTTCTTGTGTCCTGATGAAAAATATGTGCTTGAATGAGAACTTTG
ATCTCTGCTTACTAATGTGCCCCATGTCCAAGTCCAACCTGCCTGTGCATGACCTGATCATTACATGGCTGTGGT
TCCTAAGCCTGTTGCTGAAGTCATTGTGCTCAGCAATAGGGTGCAGTTTCCAGGAATAGGCATTTGCCTAATT
CCTGGCATGACACTCTAGTGACTTCTTGGTGAGGCCAGCCTGTCTGGTACAGCAGGGTCTTGCTGTAACCTCAG
ACATTCCAAGGGTATGGGAAGCCATATTACACCTCAGCTCTGGACATGATTTAGGGGAAGCAGGGACACCCCC
GCCCCCACCTTTGGGATCAGCCTCCGCCATTCCAAGTCAACACTCTTCTTGAGCAGACCGTGATTTGGAAGAGA
GGCACCTGCTGGAACACACTTCTTGAAACAGCCTGGGTGACGGTCTTTAGGCAGCCTGCCGCCGTCTCTGTC
CCGGTTACCTTGCCGAGAGAGGCGGTCTGCCCCACCCTCAAACCCTGTGGGGCCTGATGGTGCTCAGACTCT
TCCTGCAAAGGGAACCTGAAGACCTCCACATTAAGTGGCTTTTAAACATGAAAAACACGGCAGCTGTAGCTCCCGA
GCTACTCTCTTGCCAGCATTTTACATTTTGCCTTTCTCGTGGTAGAAGCCAGTACAGAGAAATCTGTGGTGGG
AACATTCGAGGTGTCAACCTGCAGAGCTATGGTGAGGTGTGGATAAGGCTTAGGTGCCAGGCTGTAAGCATTCTG
AGCTGGGCTTGTGTTTTTAAAGTCCTGTATATGTATGTAGTAGTTTGGGTGTGTATATATAGTAGCATTTCAAAA
TGGACGTACTGGTTTAAACCTCCTATCCTTGGAGAGCAGCTGGCTCTCCACCTTGTTACACATTATGTTAGAGAGG
TAGCGAGCTGCTCTGCTATATGCCTTAAGCCAATATTTACTCATCAGGTCATTATTTTTTACAATGGCCATGGAA
TAAACATTTTTTACAAA

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FIGURE 5810

MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKNKNRNRVSPFDHSRIKLHQEDNDYINASLIKME
EAQRSYILTQGPLPNTTCGHFWEMVWEQKSRGVVMLNRVMEKGSCLKAQYWPQKEEKEMIFEDTNLKLTLISEDIK
SYYTVRQLELENLTQETREILHFHYTTWPDFGVPEPASFLNLFKVRRESGSLSPEHGPVVVHCSAGIGRSGTF
CLADTCLLLMDKRKDPSSVDIKKVLEMRKFRMGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLE
PPPEHIPPFRPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEKGSPLNAAPYGIESMSQDTEVRSRVV
GGSLRGAQAASPAKGEPSLPEKDEDHALSYWKPFVLNMCVATVLTAGAYLCYRFLFNSNT

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FIGURE 5811

ATGGCCTCCTTGGAAGTCAGTCGTAGTCCTCGCAGGTCTCGGCGGGAGCTGGAAGTGCGCAGTCCACGACAGAAC
AAATATTCGGTGCTTTTACCTACCTACAACGAGCGCGAGAACCCTGCCGCTCATCGTGTGGCTGCTGGTGAAAAGC
TTCTCCGAGAGTGGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCCAGATGGAACAAGGGATGTTGCT
GAACAGTTGGAGAAGATCTATGGGTCAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAACT
GCATATATTCATGGAATGAAACATGCCACAGGAAACTACATCATTATTATGGATGCTGATCTCTCACACCATCCA
AAATTTATTCCTGAATTTATTAGGAAGCAAAAGGAGGGTAATTTTGATATTGTCTCTGGAACCTCGCTACAAAGGA
AATGGAGGTGTATATGGCTGGGATTTGAAAAGAAAAATAATCAGCCGTGGGGCCAATTTTTTAACTCAGATCTTG
CTGAGACCAGGAGCATCTGATTTAACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAA
AAATGIGTTTTCTAAAGGCTACGTCTTCCAGATGGAGATGATTGTTGCGGGCAAGACAGTTGAATTATACTATTGGC
GAGGTTCCAATATCATTTGTGGATCGTGTTTATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTATCTTTCTTG
AAAGGATTATTGACTCTTTTTGCTACTACATTAAAAGAAAGATACTCATTTATAGTTACGTTCAATTCAGGTTAAA
CATGAAAGAAGCCTGGTTACTGATTTGTATAAAATGTACTCTTAAAGTATAAAATATAAGGTAAGGTAAATTTCA
TGCATCTTTTTATGAAGACCACCTATTTTATATTTCAAATTAAATAATTTTAAAGTTGCTGGCCTAATGAGCAAT
GTTCTCAATTTTCGTTTTTCATTTTGCTGTATTGAGACCTATAAATAAATGTATATTTTTTTTTGCATAAAGT

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FIGURE 5812

MASLEVSRSPRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSESGINYEIIIIIDDGSPDGTRDVA
EQLEKIYGSDRILLRPREKKLGLGTAYIHGMKHATGNYIIIMDADLSHHPKFIPEFIRKQKEGNFDIVSGTRYKG
NGGVYGWDLKRKIIISRGANFLTQILLRPGASDLTGSRFLYRKEVLEKLEKCVSKGYVFQMEMIVRARQLNYTIG
EVPISFVDRVYGESKLGNEIVSFLKGLLTLFATT

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FIGURE 5813

GGAAGACTTGGGTCCTTGGGTTCGACGGTGGGAGCCGACGGGTGGGTAGACCGTGGGGGATATCTCAGTGGCGGAC
GAGGACGGCGGGGACAAGGGGCGGCTGGTTCGGAGTGGCGGAGCGTCAAGTCCCTGTGCGTTCCCTCCGTCCTGA
GTGTCTTGGCGCTGCCTTGIGCCCGCCAGCGCCTTTGCATCCGCTCCTGGGCACCGAGGCGCCCTGTAGGATA
CTGCTTGTTACTTATTACAGCTAGAGGGTCTCACTCCATTGCCCAGGCCAGAGTGCGGGGATATTTGATAAGAAA
CTTCAGTGAAGGCCGGGCGCGGTGGCTCATGCCCCTAATCCCAGCATTTTCGGAGGCCGAGGCATCATGGACCGA
TCTAAAGAAAACTGCATTTAGGACCTGTAAAGGCTACAGCTCCAGTTGGAGGTCCAAAACGTGTTCTCGTGA
CAGCAATTTCTTGTGAGAATCCATTACCTGTAAATAGTGGCCAGGCTCAGCGGGTCTTGTGTCCTTCAAATTCT
TCCCAGCGCATTCCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCGGTTCAGAATCAGAAGCAGAAGCAA
TTGCAGGCAACCAGTGTACCTCATCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCCTGCCA
TCGGCACCTGAAAATAATCCTGAGGAGGAAGTGGCATCAAAACAGAAAAATGAAGAATCAAAAAAGAGGCAGTGG
GCTTTGGAAGACTTTGAAATTGGTCGCCCTCTGGGTAAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAG
CAAAGCAAGTTTATTCTGGCTCTTAAAGTGTTATTTAAAGCTCAGCTGGAGAAAAGCCGGAGTGGAGCATCAGCTC
AGAAGAGAAGTAGAAATACAGTCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCT
ACCAGAGTCTACCTAATTCTGGAATATGCACCACTTGGAAACAGTTTATAGAGAACTTCAGAACTTTCAAAGTTT
GATGAGCAGAGAACTGCTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTTCATTGCAAGAGAGTTATT
CATAGAGACATTAAGCCAGAGAACTTACTTCTTGATCAGCTGGAGAGCTTAAAAATTGCAGATTTTGGGTGGTCA
GTACATGCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCCTGGACTACCTGCCCCCTGAAATGATTGAAGGT
CGGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTGTAGTTGGGAAGCCTCCT
TTTGAGGCAAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTGGAATTCACATTCCTTGACTTTGTAACA
GAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCAGCCAGAGGCCAATGCTCAGAGAAGTACTT
GAACACCCCTGGATCACAGCAAATTCATCAAACCATCAAATTGCCAAAACAAAGAATCAGCTAGCAAACAGTCT
TAGGAATCGTGCAGGGGGAGAAATCCTTGAGCCAGGGCTGCCATATAACCTGACAGGAACATGCTACTGAAGTTT
ATTTTACCATTGACTGCTGCCCTCAATCTAGAACGCTACACAAGAAATATTTGTTTACTCAGCAGGTGTGCCTT
AACCTCCCTATTGAGAAAGCTCCACATCAATAACATGACACTCTGAAGTGAAAGTAGCCACGAGAATTGTGCTA
CTTATACTGGTTTATAATCTGGAGGCAAGGTTGACTGCAGCCGCCCCGTCAGCCTGTGCTAGGCATGGTGTCTT
CACAGGAGGCAAAATCCAGAGCCTGGCTGTGGGGAAAGTGACCACTCTGCCCTGACCCCGATCAGTTAAGGAGCTG
TGCAATAACCTTCCTAGTACCTGAGTGAGTGTTAACTTATTGGGTTGGCGAAGCCTGGTAAAGCTGTTGGAATG
AGTATGTGATTCTTTTTAAGTATGAAAATAAAGATATATGTACAGACTTGTATTTTTCTCTGGTGGCATTCTCT
TAGGAATGCTGTGTGTCTGTCCGGCACCCCGGTAGGCCTGATTGGGTTTCTAGTCTCTTAACCACTTATCTCC
CATATGAGAGTGTGAAAAATAGGAACACGTGCTCTACCTCCATTTAGGGATTTGCTTGGGATACAGAAGAGGCCA
TGTGTCTCAGAGCTGTTAAGGGCTTATTTTTTTTAAACATTGGAGTCATAGCATGTGTGTAAACTTTAAATATGC
AAATAAATAAGTATCTATGTCT

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FIGURE 5814

AGAGGAGTGGGACCGATCGATAGCGCAGCGGTCGCTTGGCGCCCTTTTCAGCGTGCGCAGTGAACGTGCGCTCGGA
GCGGTAGATTGGGCAGGATTCGCGCCTCCATTTTTCCAGGAGAGAGCGGGATACCAAGAGAACCGGACCAGCTGC
TGGCAGGGAAACTGTCTTCCTTTTCTCCAAGATGTTACAGAACCAAAGTGGGCTTGAAGGACCGCCAGCAGCTCTA
CAAGCTGATCATTAGCCAGCTGCTATATGACGGCTACATCAGCATCGCCAATGGCCTCATCAATGAAATCAAGCC
TCAGTCTGTGTGTGCACCCCTCGGAGCAGCTCCTGCATCTCATCAAACTCGGAATGGAAAACGATGACACCGCAGT
TCAGTATGCAATTGGTCGTTTCAGATACTGTTGCCCCCTGGCACAGGGATTGACCTGGAATTTGATGCAGATGTTCA
GACTATGTCCCAGAGGCTTCTGAGTACGAAACATGCTATGTACATCACATAAAGGACCATGCCGTGTAGCTAC
CTATAGTAGAGATGGACAGTTAATAGCTACTGGGTCTGCTGATGCTTCGATAAAGATACTTGACACAGAGAGGAT
GTTGGCCAAAAGTGCCATGCCAATAGAGGTCATGATGAATGAGACCGCACAAACAAAATATGGAAAACCAACCCAGT
GATTCGAACCTTTTATGACCATGTGGATGAAGTCACGTGCCTTGCTTTCCACCCAACAGAACAGATCCTGGCTTC
TGGTTCAAGGGATTATACTCTTAAATTATTTGATTATTCCAAACCATCAGCAAAAAGAGCCTTCAAATACATTCA
GGAAGCTGAAATGTTACGTTCCATCTCTTTTCATCCTTCTGGAGACTTTATACTTGTGCGAACTCAGCATCCTAC
TCTTCGCCCTTTATGATATCAACACCTTTCAATGTTTTGTCTCTTGCAATCCTCAAGATCAACACACCGATGCTAT
ATGTTCCGTTAATTACAATTCTAGTGCCAATATGTACGTAACGGAAAGCAAGGACGGCTGCATCAAATTATGGGA
TGGTGTTTCAAATCGATGCATCACAACTTTTGAGAAAGCACATGACGGTGCTGAAGTTTGTCTGCCATTTTTTC
CAAAAATTCTAAATACATTCTCTCAAGTGGAAGAAAGACTCTGTAGCTAAACTTTGGGAAATATCAACGGGACGAAC
ACTGGTCAGATACACGGGCGCGGGTTTAAGTGGACGCCAGGTGCACCGGACACAGGCTGTGTTTAACCACACCGA
GGACTATGTGTTGCTGCCCCGACGAGAGGACGATCAGTCTTTGCTGCTGGGACTCGAGGACAGCCGAGCGGAGAAA
CCTGCTGTCGTTGGGGCACAAACATATTGTACGCTGCATAGTGCACTCCCCCACCACCCCGGGTTCATGACGTG
CAGCGATGACTTCAGAGCGCGGTTTTGGTACCGGAGATCGACCACTGAGCTGAGCCACCCCTCTCCGTAGGGTTCTT
TCTCGAGGACTCTACCCCTCCTCCCCACGTCTGTCTCAGCTGCAGTCGTAAGTCCGTGCACCATCCTTGACGTT
TTGCTGCCACCTCTGTCCACATTCTTCTTGATTTGTATAAAAGAATCTTTTTTACCTTGATGTAGAATCATGG
TGGAAAAAGTTGGAAACACAGATCTGTGCAGTTCTACATTCACTGATTATTACAGTGTGATTTTCATCGGTTTTG
TAAGTACAGGACTTGCCGTTTCTTTTGATCTCTTGATTGAAGGAGGATAGGGCATTAAAGTGCTTTTGACATGAG
G

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FIGURE 5815

MYRTKVGLKDRQQLYKLIISQLLYDGYISIANGLINEIKPQSVCAPSEQLLHLIKLGMENDDTAVQYAIGRSDTV
APGTGIDLEFDADVQTMSPLEASEYETCYVTSHKGPCRVATYSRDGQLIATGSADASI KIL DTERMLAKSAMP I EV
MMNETAQONMENHPVIRTLYDHVDEVTCLAFHPTEQILASGSRDYTLKLF DYSKPSAKRAF KYIQEAEMLR S I SF
HPSGDFILVGTQHPTLRLYDINTFQCFVSCNPQDQHTDAICSVNYNSSANMYVTGSKDGC I KLWDGV SNRCITTF
EKAHDGAEVCSAIFSKNSKYILSSGKDSVAKLWEISTGRTLVR YTGAGLSGRQVHRTQAVFNHTEDYVLLPDERT
ISLCCWDSRTAERRNLLSLGHNNIVRCIVHSPTNPGFMTCSDDFRARFWYRRSTTD

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FIGURE 5816

GGATTTGCGCCGAAATCCCGGAAGTGACAGCTTTGGGGGTTTGCTGCTGGCTCTGACTCCCGTCCTGCG**ATGGGT**
TGCGACGGGGGAACAATCCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAGGTTGAGAAGGTCGACAAAGAT
GCTGAATTAGTGGCCCCAATGGAACATTGTACTCTAAGTCAGGAAATATTAAGACGACCAATAGTTGCCTGTGAA
CTTGGCAGACTTTATAACAAAGATGCCGTCATTGAATTTCTCTTGACAAATCTGCAGAAAAGGCTCTTGGAAG
GCAGCATCTCACATTAAAAGCATTAAAGAATGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAAGGGGAT
AAAGGAAACACTAAAGGTGACAAGCACGATGACCTCCAGCGGGCGCGTTTCATCTGCCCCGTTGTGGGCCTGGAG
ATGAACGGCCGACACAGGTTCTGCTTCCTTCGGTGCTGCGGCTGTGTGTTTTCTGAGCGAGCCTTGAAAGAGATA
AAAGCGGAAGTTTGCCACACGTGTGGGGCTGCCTTCCAGGAGGATGATGTCATCATGCTCAATGGCACCAAGGAG
GATGTGGACGTGCTGAAGACAAGGATGGAGGAGAGAAGGCTGAGAGCGAAGCTGGAAAAAGAAAACAAAGAAACCC
AAGGCAGCAGAGTCTGTTTCAAACACAGATGTCAGTGAAGAAGCCCCAGGGCCATCAAAAAGTTAAGACAGGGAAG
CCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAACCAACTTGGCTCCCAAAAGCACAGCAATGAATGAGAGC
TCTTCTGAAAAAGCTGGGAAGCCTCCGTGTGGAGCCACAAAGAGGTCCATCGCTGACAGTGAAGAATCGGAGGCC
TACAAGTCCCTCTTTACCACTCACAGCTCCGCCAAGCGCTCCAAGGAGGAGTCTGCCCACTGGGTACCCACACG
TCCTACTGCTTCT**TGA**AGCCCGCACTGCCACCGCTCCTGCCCCAGAAGGTTGTTTAGTTTCCACGTAGGCAGGTCG
CTTTGTGCCTCTGAGTGCGCTGCTGTGTGTTCTCTCTATAGTTCTGTGTCATAAAGCTGTCTGGCCAGCCTTCA
AGCTGGTGTGGCCACTCTTGATGTGAGGCGTGTGCGTTCCAGGGGGACATGGGAGGGGCTGCACAGTGGCCCGA
GGTCATGCTTGCTTCCACCTGCAGGTGCATTGGTCTTTCCATGGCCAGGAAGCCCTGTGGGCTGCACCTTTTAA
TGCTTGCAAGTAACAAGAGACTCCAGAGTCTCACCGGTGCAGAGTTGGCACATATTAATTAATAAAATTCTAAT
GATCTTGCTACCAGCAATAAATCAAGTAGGCCAAGTGAACTGGGCTTTAAAAAGGATGGATTTCAAATACACTG
TGCCCACTAGAAGCTTCGAAGGGCCTCGTCCCTCTGCTACAGCCCTGGGAGGAGCCAGGATCCTTGTTGGTCTAG
CTAAATACTGTTAGGGGAGTGTGCCCCATCTCATCATTTTGAAGATAGCAGAGTCATAGTTGGGCACCCAGTGAT
TGGGTTCAAAAATAAAGCTGGTCTGCCTCTTC

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FIGURE 5817

MGCDGGTIPKRHELVKGPKKVEKVDKDAELVAQWNYCTLSQEILRRPIVACELGRLYNKDAVIEFLDKSAEKAL
GKAASHIKSIKNVTELKLSDNPAWEGDKGNTKGDKHDDLQRRARFICPVVGLEMNGRHRFCFLRCCGCVFSEALK
EIKAEVCHTCGAAFQEDDVIMLNGTKEDVDVLKTRMEERRLRKLEKKTKKPKAAESVSKPDVSEEAPGPSKVKT
GKPEEASLDSREKKTNLAPKSTAMNESSGKAGKPPCGATKRSIADSESEAYKSLFTTHSSAKRSKEESAHWVT
HTSYCF

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FIGURE 5818

CCGAGGCGGCCTCTTGTGCGATCCAGGGCGCACAAGGCTGGGAGAGCGCCCCGGGGCCCCCTGCTATCCGCGCCGG
AGGTTGGAAGAGGGTGGGTTGCCGCCGCCGAGGGCGAGAGCGCCAGAGGAGCGGGAAGAAGGAGCGCTCGCCCC
CCCCCTGCCTCCTCGCTGCCTCCCCGGCGTTGGCTCTCTGGACTCCTAGGCTTGCTGGCTGCTCCTCCCACCCG
CGCCCGCCTCCTCACTCGCCTTTTCGTTTCGCCGGGGCTGCTTTCCAAGCCCTGCGGTGCGCCGGGCGAGTGCGG
GGCGAGGGGCCCCGGGGCCAGCACCGAGCAGGGGGCGGGGGTCCGGGCAGAGCGCGGCCGGCCGGGGAGGGGCCAT
GTCTGGCGCGGGCGCAGCGGGGCCCGTCTGCAGCAAGTGACCGAGCGCGCGGACGGCCGCTGCCCCCTCTGCC
ACCTGGGGCGGTGCGGGCCCGAGCCCCGAGCCCCGGGTAGCGCGTAGAGCCGGCGCGATGCACGTGCGCTCACTG
CGAGCTGCGGGCGCCGACAGCTTCGTGGCGCTCTGGGCACCCCTGTTCTGCTGCGCTCCGCCCTGGCCGACTTC
AGCCTGGACAACGAGGTGCACTCGAGCTTCATCCACCGGCGCCTCCGCAGCCAGGAGCGGCGGGAGATGCAGCGC
GAGATCCTCTCCATTTTGGGCTTGCCCCACCGCCCCGCGCCCGCACCTCCAGGGCAAGCACAACTCGGCACCCATG
TTCATGCTGGACCTGTACAACGCCATGGCGGTGGAGGAGGGCGGCGGGCCCCGGCGGCCAGGGCTTCTCCTACCCC
TACAAGGCCGTCTTCAGTACCCAGGGCCCCCCTCTGGCCAGCCTGCAAGATAGCCATTTCTCACCAGCGCCGAC
ATGGTCATGAGCTTCGTCAACCTCGTGGAACATGACAAGGAATTCTTCCACCCACGCTACCACCATCGAGAGTTC
CGGTTTGATCTTTCCAAGATCCCAGAAGGGGAAGCTGTACGGCAGCCGAATTCCGGATCTACAAGGACTACATC
CGGGAACGCTTCGACAATGAGACGTTCCGGATCAGCGTTTATCAGGTGCTCCAGGAGCACTTGGGCAGGGAATCG
GATCTCTTCTGCTCGACAGCCGTACCCTCTGGGCCTCGGAGGAGGGCTGGCTGGTGTGTTGACATCACAGCCACC
AGCAACCACTGGGTGGTCAATCCGCGGCACAACCTGGGCCTGCAGCTCTCGGTGGAGACGCTGGATGGGCAGAGC
ATCAACCCCAAGTTGGCGGGCCTGATTGGGCGGCACGGGGCCCCAGAACAAGCAGCCCTTCATGGTGGCTTTCTTC
AAGGCCACGGAGGTCCACTTCCGCAGCATCCGGTCCACGGGGAGCAAACAGCGCAGCCAGAACCGCTCCAAGACG
CCCAAGAACCAGGAAGCCCTGCGGATGGCCAACGTGGCAGAGAACAGCAGCAGCGACCAGAGGCAGGCCTGTAAG
AAGCACGAGCTGTATGTGAGCTTCCGAGACCTGGGCTGGCAGGACTGGATCATCGCGCCTGAAGGCTACGCCGCC
TACTACTGTGAGGGGGAGTGTGCCTTCCCTCTGAACTCCTACATGAACGCCACCAACCACGCCATCGTGACAGC
CTGGTCCACTTCATCAACCCGGAACGGTGCCCCAAGCCCTGCTGTGCGCCACGCAGCTCAATGCCATCTCCGTC
CTCTACTTTCGATGACAGCTCCAACGTATCCTGAAGAAATACAGAAACATGGTGGTCCGGGCCTGTGGCTGCCAC
TAGCTCCTCCGAGAATTCAGACCCCTTTGGGGCCAAGTTTTTCTGGATCCTCCATTGCTCGCCTTGGCCAGGAACC
AGCAGACCAACTGCCTTTTGTGAGACCTTCCCCCTCCCTATCCCCAACTTTAAAGGTGTGAGAGTATTAGGAAACA
TGAGCAGCATATGGCTTTTGTATCAGTTTTTCAGTGGCAGCATCCAATGAACAAGATCCTACAAGCTGTGCAGGCA
AAACCTAGCAGGAAAAAACAACGCATAAAGAAAAATGGCCGGGCCAGGTCATTGGCTGGGAAGTCTCAGCCA
TGCACGGACTCGTTTTCCAGAGGTAATTATGAGCGCCTACCAGCCAGGCCACCCAGCCGTGGGAGGAAGGGGGCGT
GGCAAGGGGTGGGCACATTGGTGTCTGTGCGAAAGGAAAATTGACCCGGAAGTTCCTGTAATAAATGTCACAATA
AAACGAATGAATG

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FIGURE 5819

AGCCACTGCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGTACGGGCACTGGGCGACTCT
GTGCCTCGCTGAAGAAAAATACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCCAAATGTCATCATA
TGCATTTTTTGTGCAAACTTGTCGGGAGGAGCATAAGAAGAAGCACTCAGATGCTTCAGTCAACTTCTCAGAGTT
TTCTAACAAGTGCCCATTATGAAAGACAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCA
AGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCTGTTCTGCTCTGAGTATCACCCAAAAATCAAAG
GAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATG
ACAAGCAGCCTGGTGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCAAGCTA
AAGGAAAGCCTGAGGCAGCAAAAAAGGGAGTTGTCAAAGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAG
ATGAGGAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGAAGATGATGATGATGAATAAGTTGGCT
CTAGCGCAGTTTTTTTTTCTTGCTTAAAGCATTTAACGCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAT
TGAAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTGTTTTTTGTATGGTTAATACACTACCAAA
TGTGTCTTTAGATGGCCCTGTCTGGTGGTATTTTCAATAGTCACTAACCTTGCCCTGGTAGAGTATGGGGGTTGT
AAATTGGCATGGAATTTAAAGCAGGTTCTTGTTGGTGCGCAGCACAAATTAGTTATATATGGGGATGGTAGTTT
TTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTCTGTAACTGAATACCACTCTGTAATTGC
AAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTT

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FIGURE 5820

MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHSDASVNFSEFSNKCHYERQMPTYIPPKGETKKKFKDPNAPKRPP
SAFFLFCSEYHPKIKGEHPGLSIGDVAKKLGEWNNNTAADDKQPGKKAAKLKEYEKDIAAYQAKGKPEAAKKG
VVKAESKKKKKEEEDEEEDEEEDEEEDEEEDEEDDDDE